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May 5, 1989

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject:

Final Screening Site Inspection

Revision 0

Committee Care White Oak Plant

Greensboro, Guilford County, North Carolina

TDD No. F4-8803-57

Dear Mr. Hanke:

Enclosed please find three (3) copies of the Final Screening Site Inspection Report, Revision 0, for Cone Mills Corp., White Oak Plant in Greensboro, Guilford County, North Carolina.

Mr. Tom Alspaugh, the plant manager of the Cone Mills White Oak Plant, requested a copy of the report. The following is the plant address:

Plant Manager:

Mr. Tom Alspaugh

Address:

Cone Mills Corp. - White Oak Plant

2420 Fairview Street

Greensboro, North Carolina 27405

Please contact me if you have any questions concerning this report.

Very truly yours,

Approved

Douglas M. Chatham Project Manager

DMC/gwn

Enclosures (3)

FINAL SCREENING SITE INSPECTION REPORT CONE MILLS CORPORATION, WHITE OAK PLANT GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA EPA ID #: NCD000776914

2560

Prepared Under TDD No. F4-8803-57 CONTRACT NO. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 2, 1989

NUS CORPORATION SUPERFUND DIVISION

Prepared By

Reviewed By

Approved By

Douglas M. Chatham

Project Manager

Greg Schank Assistant Regional Project Manager

Regional Project Manager

NOTICE

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TABLE OF CONTENTS

EXEC	ES-1	
1.0	INTRODUCTION	1
	Objectives	1
1.2	Scope of Work	1
2.0	SITE CHARACTERIZATION	3
2.1	Site Background and History	
2.2	Site Description	3 3 3
	2.2.1 Site Features	3
	2.2.2 Waste Characteristics	6
3.0	REGIONAL POPULATIONS AND ENVIRONMENTS	7
3.1	Population and Land Use	7
	3.1.1 Demography	7
	3.1.2 Land Use	7
3.2	Surface Water	7
	3.2.1 Climatology	7
	3.2.2 Overland Drainage	8
	3.2.3 Potentially Affected Water Bodies	8
3.3	Groundwater	8
	3.3.1 Regional Aquifer Description	8
	3.3.2 Hydrogeology	9
- 4	3.3.3 Aquifer Use	9
3.4	Summary of Potentially Affected Populations and Environments	9
4.0	FIELD INVESTIGATION	13
4.1	Sample Collection	13
	4.1.1 Sample Collection Methodology	13
	4.1.2 Duplicate Samples	13
	4.1.3 Description of Samples and Sample Locations	13
4.0	4.1.4 Field Measurements	14
4.2	Sample Analysis	14
	4.2.1 Analytical Support and Methodology	14
	4.2.2 Analytical Data Quality	17 17
4.3	4.2.3 Presentation of Analytical Results	
4.3	Summary of Field Investigation	22
5.0	SUMMARY	23
REFER	RENCES	24
APPE	NDIX A Topographic Map	
	NDIX B Analytical Results	
	NDIX C Site Investigation Form	

TABLES

<u>NUMBER</u>		<u>Page</u>
Table 4-1	Sample Codes, Descriptions, and Field Measurement	16
Table 4-2	Summary of Organic Analyses, Water	18
Table 4-3	Summary of Inorganic Analyses, Water	19
Table 4-4	Summary of Inorganic Analyses, Sediment	20
Table 4-5	21	
	FIGURES	
<u>NUMBE</u> R		<u>Page</u>
Figure 1	Site Location Map	4
Figure 2	Site Layout Map	5
Figure 3	Groundwater System Components	11
Figure 4	Water Table Cross-Section	12
Figure 5	Sample Locations Map	15

EXECUTIVE SUMMARY

Cone Mills White Oak Plant is located inside the Greensboro city limits in Guilford County, North Carolina. The plant manufactures and dyes denim textiles. Wastewater from the dyeing operation is treated in a series of aeration basins and settling lagoons and the effluent is discharged into North Buffalo Creek, which flows from west to east through the middle of the facility. Chlorinated solvents were used in plant operations prior to 1982 with 15 gallons of waste solvent per week discharged to the plant's wastewater treatment system under an NPDES permit.

Cone Mills White Oak Plant is located in the Carolina Slate Belt region of the Piedmont Physiographic Province. The potentially affected aquifer is a surficial aquifer consisting of fractured igneous bedrock covered by a thin layer of regolith. The aquifer at the facility is about 30 feet below land surface and ranges from 35 to 80 feet thick.

There are 238 residences (660 persons) in the areas 2.5 - 4 miles north of the plant outside of Guilford County's water service area. There are also 75 persons served by the Memorial Presbyterian Church well approximately 2 miles north from the site. No water intakes, sensitive environments, or critical habitats were found within 15 stream miles of the site.

Analytical results of sample data from this investigation showed no contamination attributable to the facility.

Based on the target survey results FIT 4 recommends that no further remedial action be planned for the site.

1.0 INTRODUCTION

The NUS Corporation Region IV Field Investigation Team (FIT) was tasked by the U. S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Screening Site Inspection (SSI) at the Cone Mills Corporation, White Oak Plant in Greensboro, Guilford County, North Carolina. The investigation was performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task was performed to satify the requirements stated in Technical Directive Document (TDD) Number F4-8803-57. The field investigation was conducted on August 22, 1988.

1.1 OBJECTIVE

The objectives of this investigation were to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this investigation sought to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the site.

1.2 SCOPE OF WORK

The objectives were achieved through the completion of a number of specific tasks. These activities were to:

- obtain and review relevant background materials,
- obtain information on local water systems,
- evaluate target populations within a 4-mile radius of the site with regard to groundwater use,
- determine location and distance to nearest potable well,
- evaluate target populations within 15 stream miles with regard to surface water use

- develop a site sketch drawn to scale, and
- collect six environmental samples consisting of sediment and surface water samples.

2.0 SITE CHARACTERIZATION

2.1 SITE BACKGROUND AND HISTORY

Since 1896, the Cone Mills Corporation, White Oak Plant, has produced textiles, from the fiber phase through the finishing of broad-woven fabrics (Refs. 1, 2, 25). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 3) and waste solvent was discharged to the plant's wastewater treatment system. Dye wastes (possibly containing metals) and/or solvents were reported in the Preliminary Assessment (Ref. 4) to have been disposed of on site through burial and/or land application. Hazardous wastes, including a small amount of PCB, from other Cone Mills plants were reported to have been stored at the White Oak Plant (Refs. 5, 6).

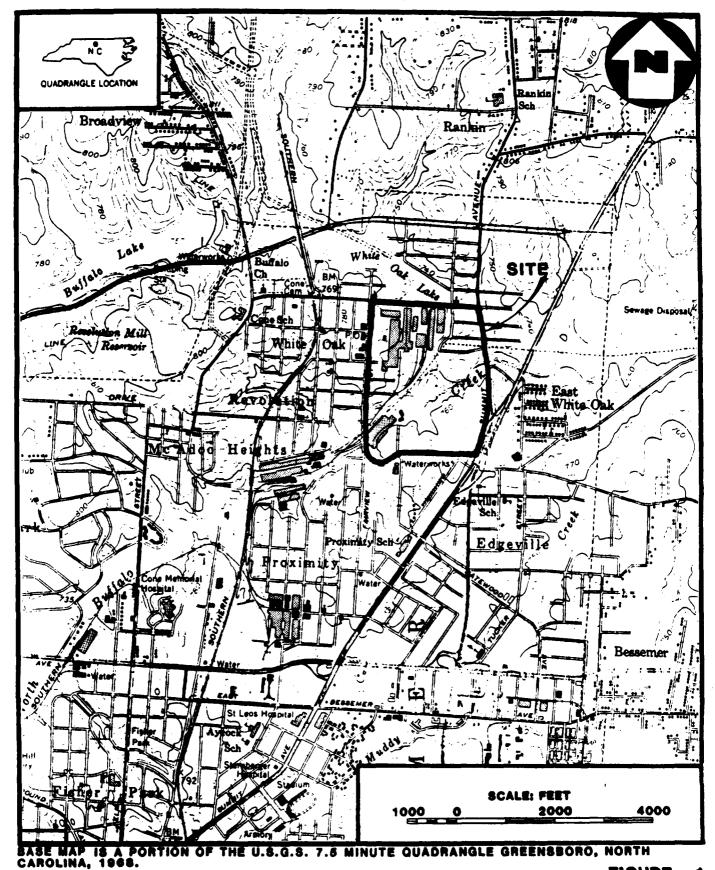
Since at least 1973, the facility has held an NPDES permit; permit conditions were apparently violated in 1973 or 1974 (Ref. 1). Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility and reported 24,000 pounds per year of ignitable wastes (Ref. 7). The facility's status was changed from "generator and storer" to "generator only" in 1983, and its interim status was withdrawn (Refs. 8, 9). Its status was changed to "small quantity generator" in 1985 (Ref. 10).

2.2 SITE DESCRIPTION

2.2.1 Site Features

Cone Mills White Oak Plant is 2200 feet wide, from east to west, and 3030 feet long, from north to south. The plant is located inside the Greensboro city limits (Refs. 7, 11). The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 12, Appendix A). The site location is shown in Figure 1 and the site layout is shown in Figure 2.

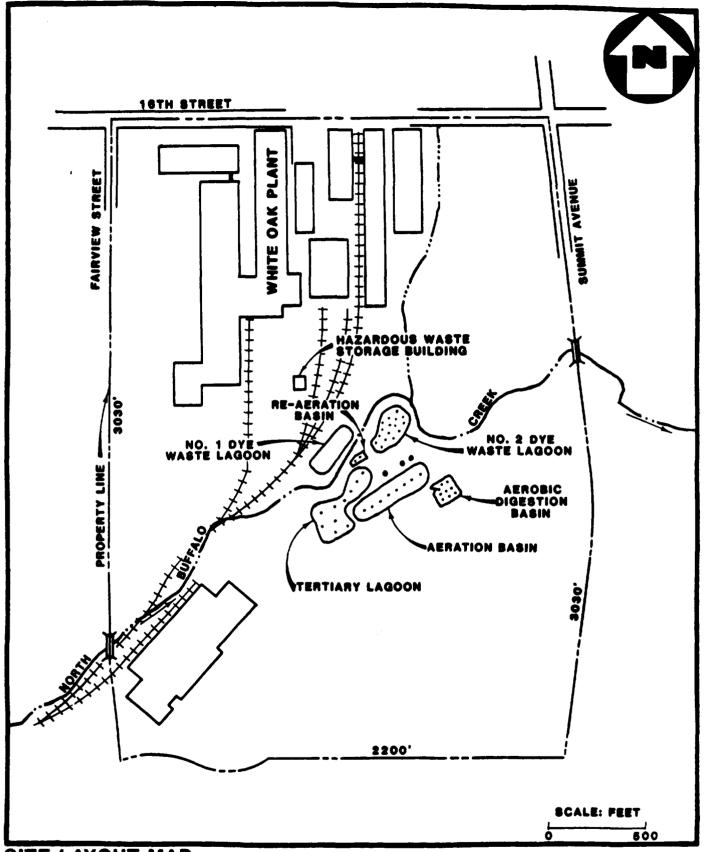
The plant is bounded on the west by Fairview Street, on the north by 16th Street, on the east by Summit Avenue, and on the south by the Guilford County waterworks. North Buffalo Creek enters the facility approximately 600 feet north of the southwest corner of the property on Fairview Street. The creek leaves the property approximately 1200 feet south of the intersection of 16th Street and Summit Avenue.



SITE LOCATION MAP CONE MILLS CORPORATION GREENSBORO, (GUILFORD COUNTY) NORTH CAROLINA



FIGURE



SITE LAYOUT MAP CONE MILLS CORPORATION GREENSBORO, GUILFORD COUNTY NORTH CAROLINA

FIGURE 2



The seven buildings of the operating plant are located north of the creek. An old building is located just south of the creek in the southwest corner of the property. The dye-waste treatment plant is located in the middle of the property just south of the creek.

The site is not easily accessible from the roads around the plant since there are fences and gates at all entrances. However, the site, specifically the dye-waste treatment area, is easily accessible by foot from the Summit Avenue side along North Buffalo Creek.

2.2.2 Waste Characteristics

Cone Mills uses indigo and sulfur dyes to dye denim fabric. The waste solutions from these dye operations are treated in a series of aeration ponds and lagoons to reduce the biochemical oxygen demand (BOD). The effluent from the wastewater treatment system is discharged into North Buffalo Creek at a point close to the No. 2 lagoon. Chlorinated solvents used in plant operations prior to 1982 (Ref. 3) were discharged to the plant's wastewater treatment system at a rate of approximately 15 gallons of waste solvent per week (Ref. 1). The principal contaminants expected from plant processes are chromium from the dyeing processes and chlorinated solvents, which were used as degreasers for equipment and maintenance.

3.0 REGIONAL POPULATIONS AND ENVIRONMENTS

3.1 POPULATION AND LAND USE

3.1.1 Demography

The area surrounding the site is urban and primarily residential. The total population within a 4-mile radius of the site 92,950. The population distribution shows that the population is 464 between 0 and one-quarter mile; 848 between one-quarter and one-half mile; 6690 between one-half and 1 mile; 25,067 between 1 and 2 miles; 25,203 between 2 and 3 miles; and 34,678 between 3 and 4 miles (Ref. 13).

3.1.2 Land Use

The area around the site is primarily residential. The area south of the facility is commercial/industrial/residential, while the area to the north is primarily residential or wooded. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately 1 mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 12, Appendix A).

The USGS Topographic Quadrangle maps (Appendix A) show three schools and one church within 1 mile of the center of the site. There are three schools, three churches, three hospitals, a country club, and a stadium between 1 and 2 miles from the plant. There are numerous schools, colleges, hospitals, and churches, and several recreational areas, such as golf courses between 2 and 4 miles from Cone Mills, principally south and southwest from the plant.

3.2 SURFACE WATER

3.2.1 Climatology

Guilford County is hot and generally humid in summer because of its moist, maritime air. Winter is moderately cold but short. The mean annual temperature is 58°F, and the average humidity is about

70 percent. The daily average temperature ranges from 38° to 77°F. Precipitation is quite evenly distributed throughout the year with 52 percent falling during the period April through September. The mean annual precipitation is about 42 inches and ranges from 38 to 46 inches. Average seasonal snowfall is 11 inches (Ref. 14).

3.2.2 Overland Drainage

North Buffalo Creek flows from west to east through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 12, Appendix A). The 15-mile extended pathway continues downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Appendix A).

3.2.3 Potentially Affected Water Bodies

North Buffalo Creek and Buffalo Creek are apparently not used for recreation. According to David Moorefield, Guilford County Water and Sewer Department, there are no water supply intakes located within 15 miles downstream from the facility (Ref. 15).

3.3 GROUNDWATER

3.3.1 Regional Aquifer Description

Cone Mills Corporation is located in the Carolina Slate Belt region of the Piedmont Physiographic Province (Ref. 17, p. 18; p. 6; 19, p. 329). It is underlain by weathered and fractured crystalline rock ranging in age from 520 to 650 million years (Ref. 18, p. 9; 20). These rocks are exposed in low, rounded hills and long northeast-southwest trending ridges. Erosion and downcutting by streams has formed these features and created a local topographic relief of 100 to 200 feet between ridge tops and stream bottoms. Summit altitudes are as high as 900 feet in the area (Ref. 18, p. 6). The principal source of groundwater in northern Greensboro is the igneous bedrock, which immediately underlies a thin layer of regolith.

Private well owners rely on fractures in crystalline rock for the transmission of groundwater to their wells. Mafic volcanic rock, the rock type in the area with the highest degree of fracturing, underlies the site (Ref. 18, p. 9). Not all parts of the study area, however, are underlain by mafic volcanics. Numerous private wells are completed in mica schist and mica gneiss within a 4-mile radius. Yields

associated with these rocks are low. A common range for wells completed in mica schist is 6 to 25 gallons per minute (gpm). Their depths range from 125 to 225 feet bls (Ref. 22).

3.3.2 <u>Hydrogeology</u>

Stratigraphy of the North Carolina Piedmont consists of folded and faulted igneous and metamorphic rock overlain by regolith. In many valleys of the Piedmont, the regolith has been eroded and bedrock is exposed or thinly covered by alluvial deposits (Ref. 18, pp. 6, 8). Bedrock in the vicinity is composed of mafic volcanic rock of Cambrian age (Ref. 18, p. 9). Additionally, rocks such as granite, gneiss, and schist are present. The folding and faulting of the bedrock has resulted in numerous fractures and joints which act as conduits for groundwater movement (Ref. 18, pp. 6, 8).

Principal components of the groundwater system at the site are illustrated in Figure 3. Groundwater is stored in the regolith and bedrock. Because of its high storage capacity, the regolith acts as a reservoir which slowly feeds water downward into the bedrock (Figure 4). Bedrock material has a much lower porosity and water is stored in planar openings which have developed as a result of fracturing. Depth to bedrock ranges from 65 to 110 feet bls (Ref. 22). Elevation of the water table at the facility is approximately 30 feet below land surface (bls).

The groundwater system at Cone Mills Corporation is probably dominated by water-table conditions. Even though there are no known continuous confining beds, local confinement is presumed to exist. Degree of local confinement is a function of the clay content of the saprolite overlying the bedrock.

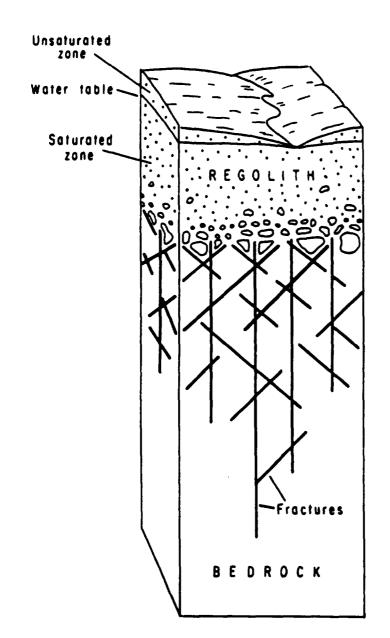
3.3.3 Aquifer Use

Within a 4-mile radius of the facility, 238 private wells produce groundwater from fractured bedrock. The closest well to the facility is located at the Memorial Presbyterian Church, approximately 10,000 feet to the north; it serves approximately 75 persons. The water supply for the Guilford County Water system is obtained from Lakes Townsend, Higgins, and Brandt, which are 4 miles north of the site (Refs. 2, 5).

3.4 SUMMARY OF POTENTIALLY AFFECTED POPULATIONS AND ENVIRONMENTS

The air pathway is not of concern since there were no contaminants found that could be transported by air either as a gas or airborne dust.

The surface water pathway is not of concern since there are no water intakes, sensitive environments, or critical habitats within 15 stream miles of the site. Groundwater is the only pathway of concern, although there is no significant use of groundwater within the 1- or 2-mile radius. A house count of the areas north of the site which are outside Guilford County water service area and between 2.5 and 4 miles revealed a total of 238 residences (including 25 trailers) (Ref. 23).



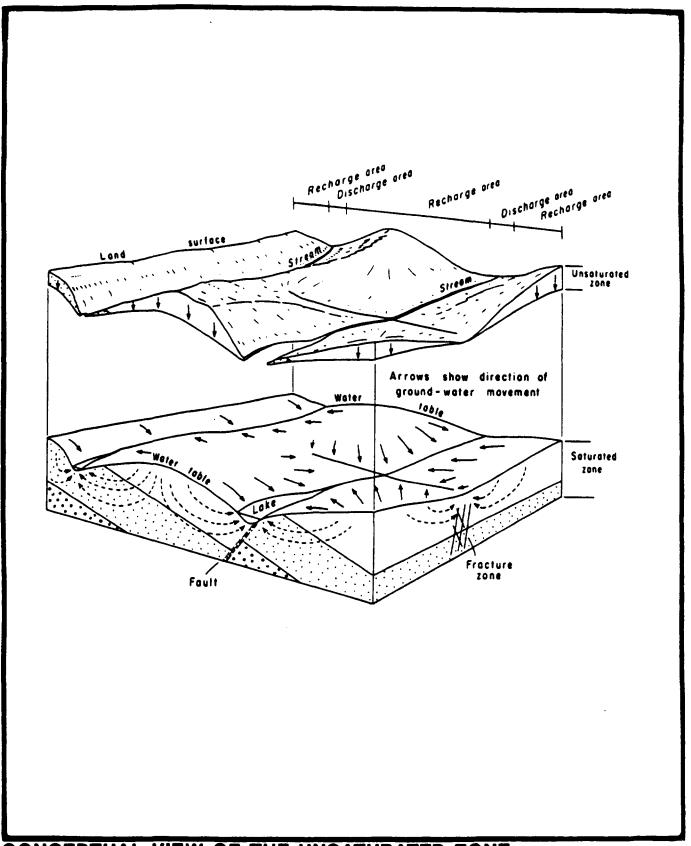
The regolith has 20 to 50 times the water storing capacity of the bedrock

Open fractures are scarce below 400 feet

PRINCIPAL COMPONENTS OF THE GROUNDWATER SYSTEM IN THE PIEDMONT AND BLUE RIDGE PROVINCES IN NORTH CAROLINA (REPRINTED FROM REF. 19)

FIGURE





CONCEPTUAL VIEW OF THE UNSATURATED ZONE (LIFTED UP), THE WATER-TABLE SURFACE AND THE DIRECTION OF GROUNDWATER FLOW FOR A TYPICAL AREA IN THE PIEDMONT AND BLUE RIDGE PROVINCES OF NORTH CAROLINA (REPRINTED FROM REF. 19)

FIGURE



4.0 FIELD INVESTIGATION

4.1 SAMPLE COLLECTION

The field investigation consisted of the collection of six environmental samples. These consisted of three sediment samples and three surface water samples from upgradient, midstream, and downgradient locations of North Buffalo Creek. Sample locations are shown in Figure 5 and described in Table 4-1.

4.1.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.

4.1.2 Duplicate Samples

Cone Mills requested duplicates of all samples taken on company property and supplied their own bottles for this purpose. The samples were accepted by Mr. Arthur J. Toompas of Cone Mills.

4.1.3 <u>Description of Samples and Sample Locations</u>

Samples CM-SW-01 and CM-SD-01 were surface water and sediment samples taken from North Buffalo Creek at the Fairview Street bridge where the creek enters the Cone Mills property. These samples were taken as background, upstream samples.

Samples CM-SW-02 and CM-SD-02 were surface water and sediment samples taken from North Buffalo Creek about 10 feet downstream of the effluent pipe of Cone Mills waste treatment plant. This onsite location was considered to be the most likely place to find contaminants, if any, which might have been disposed of in the dye-waste treatment plant.

Samples CM-SW-03 and CM-SD-03 were surface water and sediment samples taken from North Buffalo Creek at the Summit Avenue bridge where the creek exits Cone Mills property. These downstream samples were taken to show whether or not contaminants were being transported off of Cone Mills property.

4.1.4 Field Measurements

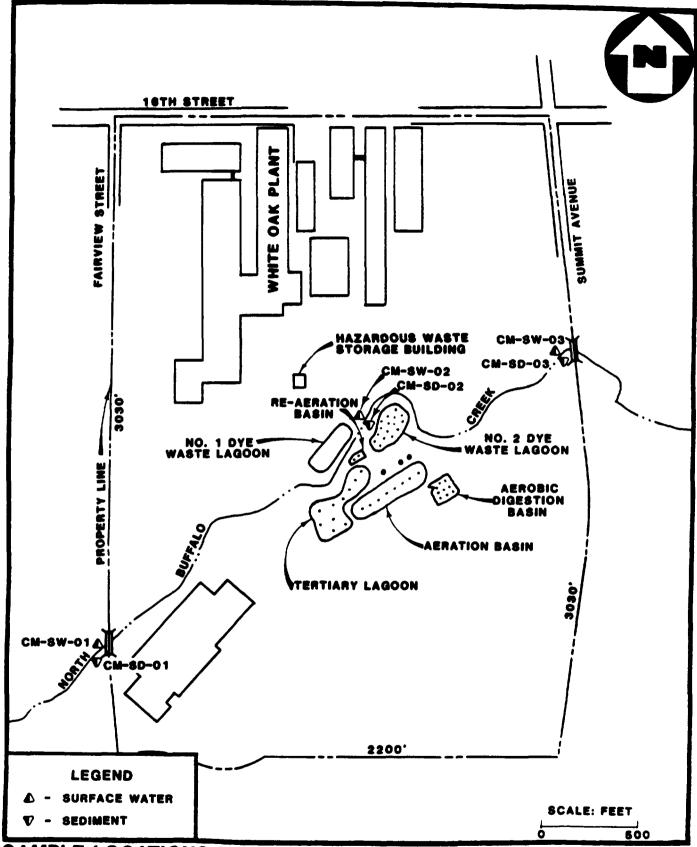
Field measurements on the water samples collected during this investigation consisted of time, date of collection, temperature, pH, and conductivity. These data are listed in Table 4-1. Field measurements for the sediment samples consisted of time and date of collection and are also presented in Table 4-1.

4.2 SAMPLE ANALYSIS

4.2.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all parameters listed in the Target Compound List (TCL). Organic analysis of soil and water samples was performed by the USEPA Environmental Services Division in Athens, Georgia. Inorganic analysis of soil ad water was performed by JTC Environmental Consultants.

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the <u>Analytical Support Branch Operations and Quality Assurance Manual</u>, United States Environmental Protection Agency, Region IV, Environmental Services Division, revised June 1, 1985; or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.



SAMPLE LOCATIONS MAP CONE MILLS CORPORATION GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA

FIGURE



-16.

TABLE 4-1 SAMPLE CODES, DESCRIPTIONS, AND FIELD MEASUREMENTS CONE MILLS-WHITE OAK PLANT GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA

SAMPLE CODE	DESCRIPTION	COLLECTION DATE	COLLECTION TIME	рН	CONDUCTIVITY (umhos/cm)	TEMP. (°C)
CM-SW-01	N. Buffalo Creek upstream surface water sample taken at Fairview Street bridge	8/22/88	1025	5.0	127	24
CM-SW-02	N. Buffalo Creek onsite surface water sample taken 10 feet downstream of No. 2 dye-waste lagoon discharge	8/22/88	1130	5.5	849	25
CM-SW-03	N. Buffalo Creek downstream surface water sample taken at Summit Avenue bridge	8/22/88	1215	5.0	369	25
CM-SD-01	N. Buffalo Creek upstream sediment sample taken at Fairview Street. bridge	8/22/88	1030	NA	NA	NA
CM-SD-02	N. Buffalo Creek onsite sediment sample taken 10 feet downstream of No. 2 dye-waste lagoon discharge	8/22/88	1135	NA	NA	NA
CM-SD-03	N. Buffalo Creek downstream sediment sample taken at Summit Avenue bridge	8/22/88	1220	NA	NA	NA

NA - Not applicable

4.2.2 Analytical Data Quality

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines. As shown in the tables, some of the organic and inorganic parameters were assigned estimated concentrations. This means that the qualitative analysis was acceptable, but the reported concentration should not be considered accurate. A few other compounds were noted as being detected based on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as a positive identification as to its presence. The complete analytical data sheets are provided in Appendix B.

4.2.3 Presentation of Analytical Results

Sample analyses detected numerous inorganic constituents in the water and sediment samples. Numerous organic constituents were detected in the sediment samples but very few in the water samples. Analytical results can be found in Tables 4-2, 4-3, 4-4, and 4-5 and sample code, description and collection data can be found in Table 4-1.

The principal contaminants attributable to the plant processes are chromium since chromium compounds are used in textile-dyeing processes and chlorinated solvents since Cone Mills reportedly used chlorinated solvents as degreasers for equipment and maintenance.

Chromium was detected in the midstream water sample (CM-SW-02) at 10 ug/l and in the downstream water sample (CM-SW-03) at 34 ug/l. The midstream result is only slightly above the detection limit of 8 ug/l established by the upstream sample. Copper was slightly elevated in the midstream sample at 150 ug/l, which is more than three times the levels of copper found in the upstream water sample (CM-SW-01) of 38 ug/l. The copper results are estimated values. Arsenic was detected in the midstream and downstream samples at 24 and 10 ug/l respectively. The midstream result is more than three times the detection limit of 6 ug/l established by the upstream sample.

Chloroform was detected in the midstream and downstream water samples at 1.0 and 0.89 ug/l, respectively. These results are much less than the detection limit of 5.0 ug/l established by the upstream sample and are estimated values.

TABLE 4-2

SUMMARY OF ORGANIC ANALYTICAL RESULTS SURFACE WATER SAMPLES CONE MILLS - WHITE OAK PLANT GREENSBORO, NORTH CAROLINA

	Upstream	Midstream	Downstream SW-03	
PARAMETERS (ug/1)	SW-01	SW-02		
PURGEABLE COMPOUNDS				
CHLOROFORM	-	1J	0.89J	
TOLUENE	1.5J	-	-	
EXTRACTABLE COMPOUNDS				
SIMAZINE	-	-	2JN	
UNIDENTIFIED COMPOUNDS/NO.	20J/1	-	-	
PESTICIDE/PCB COMPOUNDS				
DELTA-BHC	-	0.051J	-	

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value
- N Presumptive evidence of presence of material

TABLE 4-3

SUMMARY OF INORGANIC ANALYTICAL RESULTS SURFACE WATER SAMPLES CONE MILLS - WHITE OAK PLANT GREENSBORO, NORTH CAROLINA

	Upstream -	Midstream	Downstream SW-03	
PARAMETERS (ug/1)	SW-01	SW-02		
ALUMINUM	320	-	360	
ARSENIC	-	24	10	
BARIUM	21	22	84	
CADMIUM	-	-	13	
CALCIUM	12,000	12,000	12,000	
CHROMIUM	-	10	34	
COBALT	-	-	57	
COPPER	38J	150 J	49J	
IRON	810	540	700	
LEAD	9J	4.7J	8.4J	
MAGNESIUM	2300	2800	3000	
MANGANESE	-	260	160	
POTASSIUM	-	20,000	9000	
SELENIUM	-	9	-	
SODIUM	-	98,000	43,000	
/ANADIUM	22	-	50	

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value

TABLE 4-4

SUMMARY OF INORGANIC ANALYTICAL RESULTS SEDIMENT SAMPLES CONE MILLS - WHITE OAK PLANT GREENSBORO, NORTH CAROLINA

	Upstream	Midstream	Downstream	
PARAMETERS (mg/kg)	SD-01	SD-02	SD-03	
ALUMINUM	14,000	3600	3900	
ARSENIC	-	2.2	3.7	
BARIUM	84	40	14	
CALCIUM	1500	-	850	
CHROMIUM	40J	46J	36J	
COBALT	13	23	6	
COPPER	86	24	9.7	
IRON	21,000	11,000	9100	
LEAD	57	30	25	
MAGNESIUM	2100	650	1500	
MANGANESE	320	130	85	
NICKEL	12	17	11	
VANADIUM	77	38	27	
ZINC	91	62	79	

- Material analyzed for but not detected above minimum quantitation limit
- J Estimated value

TABLE 4-5

SUMMARY OF ORGANIC ANALYTICAL RESULTS SEDIMENT SAMPLES CONE MILLS - WHITE OAK PLANT GREENSBORO, NORTH CAROLINA

	Upstream	Nidstream .	Domest
PARAMETERS (ug/kg)	SD-01	SD-02	Downstream SD-03
PURGEABLE COMPOUNDS	30-01	30-02	30-03
1,1-DICHLOROETHANE		5.4J	
TOLUENE	11J	3.6J	8J
METHYL ETHYL KETONE	22J		
EXTRACTABLE COMPOUNDS		 	-
ACENAPHTHYLENE		-	120J
PHENANTHRENE		1200J	3000
ANTHRACENE	-	300J	400J
FLUORANTHENE	430J	1200J	5100
PYRENE	390J	960J	4400
BIS(2-ETHYLHEXYL) PHTHALATE	-	310J	-
BENZO(A)ANTHRACENE	210J	650J	2800
CHRYSENE	270J	650J	3000
BENZO(B AND/OR K)FLUORANTHENE	-	1110J	5600
BENZO-A-PYRENE	<u> </u>	630J	2800
INDENO (1,2,3-CD) PYRENE	-	-	1600
BENZO(GHI)PERYLENE	-	-	1500J
CARBAZOLE	-	-	200JN
CYCLOPENTAPHENANTHRENE	-		400JN
BENZONAPHTHOFURAN	-	-	300JN/2
BENZANTHRACENONE	-	-	700JN/2
RIPHENYLENE	-		600JN
ETHYLBENZANTHRACENE		-	900JN/3
METHYL PHENANTHRENE		-	400JN/2
PHENANTHRENEDIONE	-	-	300JN
METHYLFLUORANTHENE	-	-	1000JN/4
BENZONAPHTHOTHIOPHENE	-	-	400JN
BENZOFLUORANTHENE	-	300JN	3000JN/3
SIMAZINE	-	-	-
PESTICIDE/PCB COMPOUNDS			
DIELDRIN	-	3.6J	-
1,4'-DOE (P,P'-DDE)	3 J	-	-
1,4'-DDD (P,P'-DDD)	4.5J	4.6J	-
GAMMA-CHLORDANE /2	5.3	6.3	15
ALPHA-CHLORDANE /2	2.1	2.7	1.5J

⁻ Material analyzed for but not minimum quantitation limit

J Estimated value

N Presumptive evidence of presumptive of material

Other elements detected in the midstream and downstream samples but not in the upstream sample are, manganese (260 and 160 ug/l, resp.), potassium (20,000 and 9,000 ug/l, resp.), and sodium (98,000 and 43,000 ug/l, resp.). The potassium and sodium levels detected in the midstream and downstream samples are much greater than the detection limit or the value for the upstream (background) sample, though they are not considered a threat to public health.

Arsenic and cadmium were the only elements detected in the midstream sediment sample (CM-SD-02) that were not detected in the upgradient sediment sample (CM-SD-01). The concentrations of those elements (2.2 and 3.0 mg/kg, resp.) are just slightly more than the detection limits.

There were several polynuclear aromatic hydrocarbons found in all three sediment samples in increasing numbers and increasing concentrations from upgradient to downgradient sample locations. These cannot be attributed to current plant operations. One possible explanation is a railroad spur which runs along North Buffalo Creek into the plant. The spur line enters the plant at the southwest corner, follows the southern bank of the creek to nearly the middle of the property, and curves north crossing the creek to the north side.

4.3 SUMMARY OF FIELD INVESTIGATION

The field investigation consisted of the collection of six environmental samples, which included samples of creek sediment and surface water. Samples were collected upstream, downstream, and midstream (onsite).

Inorganic data for the surface water showed a slight elevation of chromium copper, and arsenic above the background. These results are greater than three times the background or detection limits. Chromium, copper, and arsenic are most likely due to wood preservative leaching from railroad ties and cannot be attributed to plant operations. Potassium and sodium were found at higher concentrations than in the upstream (background) sample. A number of inorganic constituents were found in the sediment samples, none of which could be attributed to the site.

Organic data for the water samples showed a small estimated quantity of chloroform in the midstream and downgradient samples. These results are inconclusive since they are significantly less than the background detection limit. Organic data for the sediment samples showed several polynuclear aromatic compounds, which could not be attributed to plant operations.

5.0 SUMMARY

Groundwater is the only pathway of concern. There is no significant use of groundwater within the 1- or 2-mile radius. However, a house count of the areas north of the site (in the 2- to 4-mile radius), which are outside the Guilford County water service area, revealed a total of 238 residences, or estimated 904 people, who rely on private wells (Ref. 23).

The field investigation consisted of the collection of six environmental samples from North Buffalo Creek, which runs through the center of the Cone Mills/White Oak Plant facility. The samples consisted of surface water/sediment pairs collected at upstream, onsite (midstream), and downstream locations. Copper and arsenic were detected in the onsite and downstream samples and chromium was detected in the downstream sample at concentrations greater than background or detection limits. Copper, chromium, and arsenic are components of chromated copper arsenate wood preservative which could be leaching from railroad ties and cannot be attributed to plant operations. Based on the results of this investigation FIT 4 recommends that no further remedial action be planned for the site.

REFERENCES

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APPENDIX A
TOPOGRAPHIC MAP

OVERSIZED DOCUMENT MAP

APPENDIX B
SAMPLE ANALYSES DATA

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 88-584 SAMPLE NO. 29188 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH SOURCE: CONE MILLS WHITE OAK

COLLECTION START: 08/22/88 STATION ID: SW-01 STOP: 00/00/00

MD NO: L082 CASE. NO.: 10258 * * SAS NO.: D. NO.: * *

RESULTS UNITS PARAMETER 0.01UJ MG/L CYANIDE

REMARKS RECOMMENDED HOLDING TIME EXCEEDED-HG HOLDING TIME EXCEEDED-CN

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 88-584 SAMPLE NO. 29190 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC

ST: NC . .

SOURCE: CONE MILLS WHITE OAK STATION ID: SW-02 CASE.NO.: 10258 SAS COLLECTION START: 08/22/88 STOP: 00/00/00 MD NO: L084 SAS NO.: D. NO. :

> RESULTS UNITS PARAMETER O. OIUJ MG/L CYANIDE

REMARKS RECOMMENDED HOLDING TIME EXCEEDED-HG HOLDING TIME EXCEEDED-CN

^{***}FOOTNOTES*** *MOUTHOUTES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 88-584 SAMPLE NO. 29192 SAMPLE TYPE: SURFACEWA SOURCE: CONE MILLS WHITE OAK STATION ID: SW-03 CASE.NO.: 10258 SAS NO.: PROJECT NO. 88-584 SAS NO.: PROJECT NO. 80-584 ST. NC COLLECTION START: 08/22/88 ST. NC COLLECTION START: 08/22/88 ST. NC. NO.: MD NO: L086 CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 STOP: 00/00/00

** ..

> RESULTS UNITS PARAMETER 0.01UJ MG/L CYANIDE

REMARKS RECOMMENDED HOLDING TIME EXCEEDED-HG HOLDING TIME EXCEEDED-CN

^{***}FOOTNOTES*** *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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SPECIFIED ANALYSIS DATA REPORT

CASE NO.: 10258

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PROJECT NO. 88-584 SAMPLE NO. 29194 SAMPLE TYPE: SURFACEWA SOURCE: CONE MILLS WHITE OAK STATION ID: TB-01 PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC

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SAS NO.:

COLLECTION START: 08/22/88 STOP: 00/00/00

D. NO.:

MD NO: LÖBĪ

RESULTS UNITS PARAMETER O. OTUJ MG/L CYANIDE

REMARKS RECOMMENDED HOLDING TIME EXCEEDED-HG HOLDING TIME EXCEEDED-CN

^{***}FOOTNOTES***

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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	ECT NO. 88-58	4 SAMPLE	NO. 29188	SAMPLE TYPE		OG ELEM: NSF	COLLECTED BY: A SPAUGH	
** SOURCE	CE: CONE MILL! ION ID: SW-01	WHITE OAK	•		Ci	TY: GREENSBORG LLECTION START		**
** CASE	NUMBER: 1025	a	SAS NUMBER	•	C.	D NUMBER: LOB2	: U6/22/06 SIUP): 00/00/00
**		•	JAJ HOMBEN	•	•	D NOMBER. LOGE		••
*** * * *								
UG/L	A1 ./81711/84	ANALYTICA	L RESULTS		UG/L		ANALYTICAL RESULTS	
320 580J	ALUMINUM ANTIMONY				110U , 2UR	MANGANESE MERCURY		
60	ARSENIC				300	NICKEL		
60 21 10	BARIUM				20000	POTASSIUM		
10	BERYLLIUM				<u>4U</u>	SELENIUM		
40	CADMIUM				90	SILVER		
1 2000 7U	CALCIUM. CHROMIUM				2900U 1.70	SODIÚM THALLIUM		
	COBALT				NÀ '	TIN		
8U 3 8J	COPPER				22	VÄNADIUM		
810	IRON -				40U	ZINC		
9J 2300	LEAD							
2300	MAGNESIUM							

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*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT,

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT, RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

12/02/88

METALS DATA REPORT		12/02/00
	WHITE OAK CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 STOP:	: 00/00/00 **
**		**
UG/L 170U ALUMINUM 58UJ ANTIMONY 24 ARSENIC 22 BARIUM 10 CADMIUM 12000 CALCIUM. 10 CHROMIUM 8U COBALT 150J COPPER 540 IRON 4.7J LEAD	ANALYTICAL RESULTS 260	• • • • • • • • • • • • • • • • • • • •

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^{*}FOUTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

12/02/88

METALS	DATA REPORT		E/A NEGION IV	LOD, ATTIENS, GA.		12/02/66
**	PROJECT NO. 88-584 SOURCE: CONE MILLS STATION ID: SW-03 CASE NUMBER: 10258	WHITE OAK			LLECTED BY: A SPAUGH ST: NC 18/22/88 STOP: 00/0	**
360 5884 10 84 100 13 12000 34 57 49J 700 8.4J 3000	ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CADMIUM CALCIUM CHROMIUM COBALT COPPER IRON LEAD MAGNESIUM	ANALYTICAL RESULTS		UG/L A 160 MANGANESE .2UR MERCURY 50U NICKEL 9000 POTASSIUM 4U SELENIUM 20U SILVER 43000 SODIUM 1.7U THALLIUM NA TIN 50 VANADIUM 40U ZINC	NALYTICAL RESULTS	• • • • • • • • • •

REMARKS

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^{*}A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

*R-QC INDICATES THAT DATA UNUSABLE, COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

12/02/88

METALS DAT	TA REPORT							,,,
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** PROJE	CT NO. 88-584	SAMPLE	NO. 29194	SAMPLE TYPE	: SURFACEWA	PROG ELEM: NSI	F COLLECTED BY: A SI	PAUGH **
** SOURCE	E: CONE MILLS	WHITE OAK				CITY: GREENSBO	DRO ST: NC	
** STATI	ON ID: TB-01					COLLECTION ST	ART: 08/22/88	STOP: 00/00/00 **
•• CASE	NUMBER: 10258		SAS NUMBER:			MD NUMBER: LO	081	**
**								**
*** * * *		* * * * *					* * * * * * * * * *	
UG/L		ANALYTICA	NL RESULTS			IG/L	ANALYTICAL RESUL	ſS
1 700	ALUMINUM				200		SE	
58UJ	ANTIMONY				. 20			
6U	ARSENIC				160			
110	BARIUM				880			
10	BERYLLIUM				4 U	SELENIU	M	
4U	CADMIUM				200	SILVER		
410U	CALCIUM				290			
70	CHROMIUM				1,7		V	
80	COBALT				NA	TIN		
22UJ	COPPER				140		V	
30v	IRON				200	J ZINC		
10	LEAD							
500U	MAGNESIUM							

REMARKS

REMARKS

^{*}POUNDIES***
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 88-584 SAMPLE NO. 29189 SAMPLE TYPE: SEDIM

PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC

SOURCE: CONE MILLS WHITE OAK STATION ID: SD-01 CASE.NO.: 10258 SAS " STOP: 00/00/00 COLLECTION START: 08/22/88 MD NO: L083 SAS NO.: D. NO.:

> RESULTS UNITS PARAMETER 2.90 MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT,

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SPECIFIED ANALYSIS DATA REPORT

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PROJECT NO. 88-584 SAMPLE NO. 29191 SAMPLE TYPE: SEDIM SOURCE: CONE MILLS WHITE OAK STATION ID: SD-02 CASE.NO.: 10258 SAS NO.: PROG ELEM: NSF COLLECTED BY: A SPAUGH

CITY: GREENSBORO ST: NC

COLLECTION START: 08/22/88 STOP: 00/00/00 MD NO: L085 D. NO.:

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> RESULTS UNITS PARAMETER 2 40 MG/KG CYANIDE

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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SPECIFIED ANALYSIS DATA REPORT

CASE. NO.: 10258

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PROJECT NO. 88-584 SAMPLE NO. 29193 SAMPLE TYPE: SEDIM SOURCE: CONE MILLS WHITE OAK STATION ID: SD-03

SAS NO.:

PROG ELEM: NSF COLLECTED BY: A SPAUGH

ST: NC CITY: GREENSBORO

COLLECTION START: 08/22/88 STOP: 00/00/00 D. NO.: MD NO: L087

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RESULTS UNITS PARAMETER 2.6U MG/KG CYANIDE

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

12/02/88

METALS DATA REPORT	ELY WE	BION IV ESD, ATTIENS, GA.	12/02/86
** PROJECT NO. 88-584 ** SOURCE: CONE MILLS WH ** STATION ID: SD-01 ** CASE NUMBER: 10258	SAMPLE NO. 29189 SAMPLE TYPE: SHITE OAK SAS NUMBER:	SEDIM PROG ELEM: NSF CONTROL CITY: GREENSBORD COLLECTION START: (MD NUMBER: LO83	DLLECTED BY: A SPAUGH ST: NC D8/22/88 STOP: 00/00/00
MG/KG 14000 ALUMINUM 17U ANTIMONY 1.7U ARSENIC 84 BARIUM .23U BERYLLIUM 1.1U CADMIUM 1500 CALCIUM 40J CHROMIUM 13 COBALT 86 COPPER 21000 IRON 57 LEAD 2100 MAGNESIUM	ALYTICAL RESULTS	MG/KG 320 MANGANESE .15UR MERCURY 12 NICKEL 260U POTASSIUM .91U SELENIUM 2.4UJ SILVER 850U SODIUM .5U THALLIUM NA TIN 77 VANADIUM 91 ZINC 32 PERCENT MOIS	ANALYTICAL RESULTS

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^{*}M-DERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

12/02/88

METALS DATA REPORT		T LUD, MINERY, CM.	12/02/00
*** * * * * * * * * * * * * * * * *	NO. 29191 SAMPLE TYPE: SEDIM	PROG ELEM: NSF COLLECTED BY: A CITY: GREENSBORO ST: (COLLECTION START: 08/22/88 MD NUMBER: LO85	NC ** STOP: 00/00/00 **
*** * * * * * * * * * * * * * * * *	AL RESULTS	MG/KG ANALYTICAL REST 130 MANGANESE .12UR MERCURY 17 NICKEL 220U POTASSIUM .75U SELENIUM 30UJ SILVER 700U SODIUM .41U THALLIUM NA TIN 38 VANADIUM 62 ZINC 18 PERCENT MOISTURE	* * * * * * * * * * * * * * * * * * *

REMARKS

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^{*}COUNDIES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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	PROJ	ECT NO.	88-584	SA	AMPLE	NO.	29193	SA	MPLE	TYPE	: SEI	DIM		PRO	G EL	.EM:	NSF	COL	LECTED	BY:	A SP	AUGH					
**	SOUR	CE: CONE	MILLS	WHITE	E OAK									CIT	Y: 0	REEN	SBORO			ST:	: NC						
	STAT	ION ID:	SD-03															: 08	/22/88			STOP	: 00	/00/	00		
	CASE	NUMBER:	10258			SAS	NUMBER	:						MD	NUN	MER:	L087		,,			• • • •	• •	-, -,	•••		
	J							•																			
***										* * :									:							 	
	MG/KG			ANAL	YTICA	I RF	SULTS							MG/KG				AN	ALYTIC	AL RE	ESULT	S					
3900		ALUMINU	2.0										85			AANGA	NESE					•					
200		ANTIMON												3UR		MERCU											
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850		CALCIUM												Ōΰ		SODIU											
36J		CHROMIU												ŠŬ		THALL											
6		COBALT	•													IN											
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^{*}NOTIVES***
*A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

PURGEABLE	ORGANICS DATA REPORT		30, 31, 33
PROJ	JECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA RCE: CONE MILLS-WHITE OAK ITON ID: SW-01 N BUFFALO CK UPGRAD	PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1025 STOP: (00/00/00
UG/L	ANALYTICAL RESULTS	UG/L ANALYTICAL RESULTS	• • • • • • • • • • • • • • • • • • • •
5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.500	CHLOROMETHANE VINYL CHLORIDE BROMOMETHANE CHLOROFLUOROMETHANE 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ACETONE CARBON DISULFIDE METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE VINYL ACETATE CIS-1,2-DICHLOROETHENE 2,2-DICHLOROETHENE ETHYL ETHYL KETONE BROMOCHLOROMETHANE CHLOROFORM 1,1.1-TRICHLOROETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE BENZENE TRICHLOROETHANE BENZENE TRICHLOROETHANE BIROMOMETHANE BIROMOMETHANE BIROMOMETHANE BIROMOMETHANE BROMOMETHANE BROMOMETHANE	5.0U CIS-1,3-DICHLOROPROPENE 50U METHYL ISOBUTYL KETONE 1.5J TOLUENE 5.0U TRANS-1,3-DICHLOROPROPENE 5.0U 1,1,2-TRICHLOROETHANE 5.0U TÉTRACHLOROETHENE(TETRACHLOROETHYLF) 5.0U TÉTRACHLOROFTHENE(TETRACHLOROETHYLF) 5.0U MÉTHYL BUTYL KETONE 5.0U MÉTHYL BUTYL KETONE 5.0U CHLOROBENZENE 10U 1,1,1,2-TETRACHLOROETHANE 5.0U CHLOROBENZENE 5.0U (M- AND/OR P-)XYLENE 5.0U GH- AND/OR P-)XYLENE 5.0U GH- AND/OR P-)XYLENE 5.0U BROMOFORM 10U BROMOBENZENE 5.0U 1,2,3-TRICHLOROPROPANE 10U 1,2,3-TRICHLOROPROPANE 10U P-CHLOROTOLUENE 10U P-CHLOROTOLUENE 10U 1,3-DICHLOROBENZENE 10U 1,2-DICHLOROBENZENE	₩E)

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFÉRENCES *J-ESTIMATED VALUE *N-PRÉSUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE	ORGANICS DATA REPORT		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		09/01/66
*** * * *	ECT NO. 88-607 SAMPLE NO. 29092 SAMPLE				* * * * * * * * * * * * *
** PROJ	ECT NO. 88-607 SAMPLE NO. 29092 SAMPLE	TYPE: AMBWA	PROG E	ELEM: NSF COLLECTED BY: A SPAUGH	**
• SOUR	CE: CONE MILLS-WHITE OAK ION ID: SW-02 N BUFFALO CK MIDSTREAM		CITY:	GREENSBORO ST: NC	**
** STATE	ION ID: SW-02 N BUFFALO CK WIDSTREAM		COLLEC	CTION START: 08/22/88 1130 STOP:	00/00/00 **
**					
UG/L	ANALYTICAL DESINTS	• • • • • • • • •	IG/I	ANALYTICAL RESULTS	
OU, L	ANALYTICAL RESULTS CHLOROMETHANE VINYL CHLORIDE BROMOMETHANE CHLOROETHANE TRICHLOROFLUOROMETHANE 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) ACETONE CARBON DISULFIDE METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE 1,1-DICHLOROETHANE VINYL ACETATE CIS-1,2-DICHLOROETHENE 2,2-DICHLOROPROPANE METHYL ETHYL KETONE BROMOCHLOROMETHANE CHLOROFORM 1,1,1-TRICHLOROETHANE 1,1-DICHLOROPROPENE CARBON TETRACHLORIDE 1,2-DICHLOROPTHANE 1,1-DICHLOROPROPENE CARBON TETRACHLORIDE 1,2-DICHLOROETHANE 1,1-DICHLOROPTHANE 1,1-DICHLOROPROPENE CARBON TETRACHLORIDE 1,2-DICHLOROETHANE BROMFANE	•) W L	MARCHITCHE RESULTS	
5.00	CHLOROMETHANE	•	5 00	CIS-1,3-DICHLOROPROPENE	
5.00	VINYL CHLORIDE	•	SOU	METHYL ISOBUTYL KETONE	
5.00	BROMOMETHANE		5. ŎŨ	TOLUENE	
5.00	CHLOROETHANE		5. OV	TRANS-1, 3-DICHLOROPROPENE	
5.00	TRICHLOROFLUOROMETHANE	Ę	5.00	1,1,2-TRICHLOROETHANE	
5. 0 0	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)		5. 0U	TETRACHLOROETHENE(TETRACHLOROETHYL	ENE)
50U 50U	ACETONE	•	5.QU	1,3-DICHLOROPROPANE	
_500	CARBON DISULFIDE	_	50U	METHYL BUTYL KETONE	
5.00	METHYLENE CHLORIDE		5. QU	DIBROMOCHLOROMETHANE	
5.00	TRANS-1, 2-DICHLORUE THENE	,	5.00	CHLOROBENZENE	
5.00	1,1-UICHLUKUEIHANE		100	1,1,1.2-TETRACHLOROETHANE	
500	CIC-1 2-DICH ODOSTHENE		5.00	CIMYL DENZENE	
5.00 5.00	2 2-01CH ODODOOANE	;	5.00	(M- AND/OR P-)XYLENE	
5.00 500	METHYL ETHYL KETCHE	•	3.00	CTVDENE	
5.00	RDOMOCH ODOMETHANE		F 00	ROMOFORM	
1.0J	CHI OROFORM	,	100	RROMORENZENE	
Š. ŎŬ	1 1 1-TRICHLOROFTHANE	1	ร่อม	1.1.2.2-TETRACHLOROETHANE	
5.00	1 1-DICHLOROPROPENE	·	100	1,2,3-TRICHLOROPROPANE	
5.00	CARBON TETRACHLORIDE		100	O-CHI OROTOLUENE	
5.00	1,2-DICHLOROETHANE		100	P-CIILOROTOLUENE	
5.0V	TRICHLOROETHENE (TRICHLOROETHYLENE)		100	1,4-DICHLOROBENZENE	
5. QU	1,2-DICHLOROPROPANE		100	1,2-DICHLOROBENZENE	
5.00	DIBROMOMETHANE				
5.00	BROMODICHLOROMETHANE				

REMARKS

^{*}A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE	ORGANICS DATA REPORT	KEGION IN ESE	, Allie	43, GA.	09/01/88
**	ECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE	: AMBWA	PROG I	ELEM: NSF COLLECTED BY: /	SPAUGH
** STAT	CE: CONE MILLS-WHITE OAK ION ID: SW-03 N BUFFALO CK DOWNGRAD			GREENSBORO ST: CTION START: 08/22/88 1215	STOP: 00/00/00
UG/L	ANALYTICAL RESULTS	• • • • • •	UG/L	ANALYTICAL RE	SULTS
5.00 5.00	CHLOROMETHANE VINYL CHLORIDE		5,00 500	CIS-1, 3-DICHLOROPROPENE	
5.00 5.00	BROMOMETHANE		5.00	METHYL ISOBUTYL KETONE TOLUENE	
5.00	CHLOROETHANE		5 MI	TRANS-1, 3-DICHLOROPROPENE	
5. ŎŨ	TRICHLOROFLUOROMETHANE		5.00 5.00	1.1.2-TRICHLOROETHANE	
5.00	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)		5. OU	TETRACHLOROETHENE(TETRACHI	LOROETHYLENE)
500 500	ACETONE		5.00	1,3-DICHLOROPROPANE	
_500	CARBON DISULFIDE		500	METHYL BUTYL KETONE	
5.00 5.00	METHYLENE CHLORIDE TRANS-1,2-DICHLOROETHENE		5.00 5.00	DIBROMOCHLOROMETHANE CHLOROBENZENE	
5.00	1 1-DICHI OROFTHANE		100	1,1,1,2-TETRACHLOROETHANE	
500	1 1-DICHLOROETHANE VINYL ACETATE		5.00	ETHYL BENZENE	
5.00	CIS-1, 2-DICHLOROETHENE		5. OV	(M- AND/OR P-)XYLENE	
5,00	2.2-DICHLOROPROPANE		5.00	Ó-XYLENÉ	
_500	METHYL ETHYL KETONE		100	STYRENE	
5.00	BRONOCHLOROMETHANE		5. QU	BROMOFORM	
0. 89 1	CHLOROFORM.		100 5.00	BROMOBENZENE	
5.00 5.00	1,1,1-TRICHLOROETHANE 1,1-DICHLOROPROPENE		100	1.1.2.2-TETRACHLOROETHANE 1.2.3-TRICHLOROPROPANE	
5,00	CARBON TETRACHLORIDE		100	O-CHLOROTOLUENE	
5.00	1.2-DICHLOROETHANE		100	P - CHILOROTOLUENE	
5. 00	BÉNZENE		100	1.3-DICHLOROBENZENE	
5.00	TRICHLOROETHENE (TRICHLOROETHYLENE)		100	1.4-DICHLOROBENZENE	
5.00	1,2-DICHLOROPROPANE		100	1,2-DICHLOROBENZENE	
5.00	DIBROMOMETHANE				
5.00	BROMODICHLORGMETHANE				

REMARKS

^{*}FOUTNUTES***

*A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

	EPA-REGION IV	ESD, ATHER	NS, GA.	06/31/88
PURGEABLE ORGANICS DATA REPORT		-	•	
		* * * * *		
** PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE	TYPE: BLKWA	PROG E	ELEM: NSF COLLECTED B GREENSBORO	Y: A SPAUGH **
** SOURCE: CONE MILLS-WHITE OAK ** STATION ID: TB-O1 TRIP BLANK		CITY:	GREENSBORO	ST:_NC **
** STATION ID: TB-O1 TRIP BLANK		COLLEC	CTION START: 08/22/88	1245 STOP: 00/00/00 **
## DIATED AD . 10 OF THE DEPART		OCELE	5110H 51HH.1. 00/22/00	1243 Stor. 00/00/00
SOURCE: CONE MILLS-WHITE OAK STATION ID: TB-O1 TRIP BLANK UG/L ANALYTICAL RESULTS				• • • • • • • • • • • • • • •
UG/L ANALYTICAL RESULTS		116/1	ANAL VIICA	L RESULTS
DOYL MARTITUM RESOLTS		VUYL	AMALTIICA	L RESULTS
5. OU CHLOROMETHANE		E (VI	CTC-1 2-DTCH 0000000EN	•
5.00 VINYL CHLORIDE		5,0U 50U	CIS-1, 3-DICHLOROPROPEN	E
5.00 VINTE CHEMIDE			METHYL ISOBUTYL KETONE	
5. OU BROMOMETHANE		o` 5 67	TOLUENE.	
5. OU CHLOROETHANE		5.00	TRANS-1, 3-DICHLOROPROP	ENE
5. OU TRICHLOROFLUOROMETHANE		5. 00	1,1,2-TRICHLOROETHANE	
5.00 BROMOMÉTHÀNE 5.00 CHLOROETHANE 5.00 TRICHLOROFLUOROMETHANE 5.00 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)		5. QU	1,1,2-TRICHLOROETHANE TETRACHLOROETHENE(TETR	ACHLOROETHYLENE)
50U ACETONE		5.QU	1,3-DICHLOROPROPANE METHYL BUTYL KETOME DIBROMOCHLOROMETHANE CHLOROBENZEME	
SOU CARBON DISULFIDE		500	METHYL BUTYL KETONE	
5. OU METHYLENE CHLORIDE		5.00 5.00	DIBROMOCHLOROMETHANE	
5 OU TRANS-1.2-DICHLOROETHEME		5.0V	CHLOROBENZENE	
5.00 1.1-DICHLOROETHANE 500 VINYL ACETATE		100	1.1.1.2-TETRACHLOROETH	ANE
SOU VINYL ACETATE		5.00	ETHYL BENZENE	
5 OU CIS-1 2-DICHIOROETHENE		5.00 5.00	(M- AND/OR P-)XYLENE	
5. OU 2,2-DICHLOROPROPANE		5. OŬ	O-XYLENE	
28J METHYL ETHYL KETONE		iõŭ	STYRENE	
5.0U 2.2-DICHLOROPROPANE 28J METHYL ETHYL KETONE 5.0U BROMOCHLOROMETHANE		5. ŎŬ	BROMOFORM	
5. OU CHLOROFORM		100	BROMOBENZENE	
5.00 1,1,1-TRICHLOROETHANE		5.00	1.1.2.2-TETRACHLOROETH	IAME:
5. OU 1,1-DICHLOROPROPENE		100	1,1,2,2-16 IRACHEOROETE	MIC
5.00 (APPON TETRACHIOPINE		100	1,2,3-TRICHLOROPROPANE	i
5. OU CARBON TETRACHLORIDE			O-CHLOROTOLUENE	
5. OU 1, 2-DICHLOROETHANE		100	P-CHLOROTOLUENE	
5. OU BÉNZENE		100	1.3-DICHLOROBENZENE	
5.00 TRICHLOROETHENE (TRICHLOROETHYLENE)		100	1,4-DICHLOROBENZENE	
5.0U 1,2-DICHLOROPROPANE		100	1,2-DICHLOROBENZENE	•
5. OU DIBROMOMETHANE				
5. OU BROMODICHLOROMETHANE				

^{***}FOOTNOTES*** "A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

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PURGEABLE	ORGANICS DATA REPORT			11,17,00
*** * * *	ECT NO. 88-607 SAMPLE NO. 29091 SAMPLE TYPE: SEDIM	* * * *		* * * * * * * * * * * *
** PRUJ	CE; CONE MILLS-WHITE OAK	PROG.	ELEM: NSF COLLECTED BY: A SPAUGH	**
	ION ID: SD-01 N BUFFALO CK UPGRAD	COLLE	GREENSBORO ST: NC CTION START: 08/22/88 1030 STOP	. 00/00/00
**	TON ID. SD OT IN BOTT ALO CK OF GRAD	COLLE	CITON START, 00/22/00 1000 510P	: 10/00/00
				* * * * * * * * * * * * * * * * * * * *
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS	
190	CHLOROMETHANE	190	CIS-1,3-DICHLOROPROPENE	
1011	VINYL CHLORIDE	1900	METHYL ISOBUTYL KETCHE	
190	BROMOMETHANE	113	TOLUENE	
190	CHLOROETHANE	190	TRANS-1,3-DICHLOROPROPENE	
190	TRICHLOROFLUOROMETHANE	190	1,1,2-TRICHLORDETHANE	
190	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	190	TETRACHLOROETHENE(TETRACHLOROETHY	(ENE)
1900	ACETONE	190	1.3-DICHLOROPPOPANE	
1900 190	CARBON DISULFIDE METHYLENE CHLORIDE	190U 190	METHYL BUTYL KETONE	
190	TRANS-1,2-DICHLOROETHENE	190	DIBROMOCHLOROMETHANE CHLOROBENZENE	
190	1,1-DICHLOROETHANE	190	1,1,1,2-TETRACHLOROETHANE	
1900	VINYL ACETATE	190	ETHYL BENZENE	
190	CIS-1,2-DILHLOROETHENE	190	(M- AND/OR P-)XYLENE	
190	2.2-DICHLOROPROPANE	190	O-XYLENE	
22J	METHYL ETHYL KETONE	190	STYRENE	
190	BROMUCHLURUME THANE	190	BROMOFORM	
190 190	CHLOROFORM	190 1 9 0	BROMOBENZENE	
190	1,1,1-TRICHLOROETHANE 1,1-DICHLOROPROPENE	190	1.1.2.2-TETRACHLOROETHANE 1.2.3-TRICHLOROPROPANE	
190	CARBON LETRACHLORIDE	190	O-CHLOROTOLULNE	
įŠŬ	1,2-DICHLOROETHANE	190	P-CHLOROTOLUE NE	
190	BENZENE	190	1,3-DICHLOROBENZENE	
190	TRICHLOROETHENE (TRICHLOROETHYLENE)	190	1.4-DICHLOROBENZENE	
190	1,2-DICHLOROPROPANE	190	1,2-DICHLOROBENZENE	
190	DIBRUMOMETHANE	29.0	PERCENT MOISTURE "	
190	BROMODICHLOROMETHANE		· ·	

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-FSTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

PURGEABLE	ORGANICS DATA REPORT	2. 7. 1.201010 10 100; 111112		11/17/65
*** DPO!	ECT NO. 88-607 SAMPLE NO. 29093 SAMPLE	* * * * * * * * * * * * * * * * * * *	FIFM NSF COLLECTED BY A SI	* * * * * * * * * * * * * * * * * * *
** SOUR	CE: CONE MILLS-WHITE OAK	CITY:	GREENSBORO ST: NC	radun **
** STAT	CE: CONE MILLS-WHITE OAK ION ID: SD-02 N BUFFALO CK MIDSTREAM	Č O L LÉ	CTION START: 08/22/88 1135	
	* * * * * * * * * * * * * * * * * * * *			
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESU	LTS
210	CHLOROMETHANE VINYL CHLORIDE BROMCMETHANE CHLOROETHANE TRICHLOROFLUOROMETHANE 1. DICHLOROETHENE(1,1-DICHLOROETHYLENE)	218	CIS-1,3-DICHLOROPROPENE	
2111	VINYL CHLORIDE	2100	METHYL ISOBUTYL KETCNE	
210	BROMOMETHANE	3.6J	TOLUENE	
210	CHLOROETHANE	210	TRANS-1,3-DICHLOROPROPENE	
210	TRICHLOROFLUOROMETHANE	210	1,1,2-TRICHLOROETHANE	
210	1,1-DICHLORUETHENE(1,1-DICHLORUETHYLENE)	210	TÉTRACHLOROETHENE (TETRACHLOR	DETHYLENE)
2100 2100	ACETONE	210	1,3-DICHLOROPROPANE	
210	CARBON DISULFIDE METHYLENE CULORIDE	210U 21U	METHYL BUTYL KETONE DIBROMOCHLOROMETHANE	
210	1RANS-1,2-DICHLOROETHENE	210	CHLOROBENZENE	
5. 4J	1,1-DICHLOROETHANE	ี้ 2i บ้	1,1,1,2-TETRACHLOROETHANE	
2100	VINYL ACETATE	2 <u>ี่</u> 1ับ	ETHYL BENZENE	
210	CIS-1,2-DICHLOROETHENE 2,2-DICHLOROPROPANE	210	(M- AND/OR P-)XYLENE	
21U	2,2-DICHLOROPROPANE	210	Ô-XYLEN E	
2100	METHYL ETHYL KETONE	210	STYRENE	
210	BROMOCHLOROMETHANE	210	BROMOFORM	
210	CHLOPOFORM	210	BROMOBENZENE	
210	1.1.1-TRICHLOROETHANE	210	1,1,2,2-TETRACHLOROETHANE	
210 210	1,1-DICHLOROPROPENE CARBON TETRACHLORIDE	218 218	1,2,3-TRICHLOROPROPANE O-CHLOROTOLULNE	
21ชี	1,2-DICHLOROE (HANE	210	P-CHLOROTOL UENE	
210	BENZE!NE	2ี่ 10	1,2-DICHLOROBENZENE	
210	TRICHLOROETHENE (TRICHLOROETHYLENE)		1,4-DICHLOROBENZENE	
210	1,2-DICHLOROPROPANE		1,2-DICHLOROBENZENE	
210	DIBROMOMETHANE	24.0	PERCENT MOISTURE	v
210	BROMODICHLOROMETHANF		· -	,

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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PURGEABLE	E ORGANICS DATA REPORT	EPA-REGION IV ESL	D, AIMER	V5, UA.			11/17/88
	JECT NO. 88 607 SAMPLE NO. 29095 SAMPLE	* * * * * * * * *	* * * *	* * * * *			
** PRO-	JECT NO. 88-607 SAMPLE NO. 29095 SAMPLE RCE: CONE_MILLS-WHITE OAK	TYPE: SEDIM	PROG I	ELEM: NSF C GREENSBORO	OLLECTED BY: A	SPAUGH	
** STA	TION ID: SD-03 N BUFFALO CK DOWNGRAD		COLLE	CTION START:	ST: ! 08/22/88 1220	STOP: 00/00/00	**
• •						•	**
UG/K			UG/KG		ANALYTICAL RES		* * * ***
00/10	d AMACTITOAL RESULTS		UU/NU		MUMETITUME RE	30[13	
200	CHLOROMETHANE		200	CIS-1,3-DICH			
20U 20U	VINYL CHLORIDE BROMOMETHANE		2000	METHYL ISOBU	TYL KETONE		
200 200	CILCROE THANK		8, NJ 200	TOLUENE	CHLOROPROPENE		
20U	TRICHI OROFLUOROMETHANE		200	1,1,2-TRICHL	ORGETHANE		
200	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)		200	TETRACHLOROE	THENE(TETRACHLO	OROFTHYLENF)	
2000 2000	ACETONE CARBON DISULFIDE		200U 200U	1,3-DICHLORO METHYL BUTYL	PROPANE		
200	METHYLENE CHLORIDE		200	DIBROMOCHLOR	OMETHANE		
200	TRANS-1, 2-DICHLOROETHENE		200	CHLOROBENZEN	Æ		
200	1, 1-DICHLOROETHANE		200	1,1,1,2-TETR	ACHLOROETHANE		
200U 20U	VINYL ACCTATE CIS-1, 2-DICHLOROETHENE		20U 20U	ETHYL BENZEN (M- AND/OR P			
200	2,2-DICHLOROPROPANE		200	Ò-XYLENE	/ATT. CIVE		
2 <u>0</u> 0U	METHYL ETHYL KETONE		200	STYRENE			
20ป 20ป	BROMOCHLOROMETHANE CHLOROFORM		20U 20U	BROMOFORM BROMOBENZENE			
ຂໍດິບິ	1,1,1-TRICHLOROETHANE		200		ACHLOROF THANE		
200	1,1-DICHLOROPROPENE		200	1.2.3-TRICHL	OROPROF ANE		
500	CARRON TETRACHLORIDE		200	O-CHLOROTOLU	ENE		
20U 20U	1,2-DICHLOROETHANE BENZENE		200 200	P-CHLOROTOLU 1,3-DICHLORO	ENE RENZENE		
200	TRICHLORGETHENE (TRICHLORGETHYLENE)		200	1,4-DICHLORO	BENZENE		
200	1,2-DICHLOROPROPANE	_	2 <u>0</u> U	1,2-DICHLORO	BENZENE		
20U 20U	DIBROMOMETHANE BROMODICHLOROMETHANE	7	23.0	PERCENT MOIS	IUKE	· ·	
400	DITOMOUT CHECKOME HIMME						

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EXTRACTABLE ORGANICS DATA REPORT
PROG ELEM: NSF COLLECTED BY: A SPAUGH
    PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA
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                                                                                                                              ..
                                                                    CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1025 STOP: 00/00/00
     SOURCE: CONE MILLS-WHITE OAK
..
                                                                                                                              ..
    STATION ID: SW-O1 N BUFFALO CK UPGRAD
..
                                                                                                                              ..
                                                                                                                              ..
UG/L
                       ANALYTICAL RESULTS
                                                                   UG/L
                                                                                       ANALYTICAL RESULTS
     10U BIS(2-CHLOROETHYL) ETHER
                                                                     10U FLUORANTHENE
     10U BIS(2-CHLOROISOPROPYL) ETHER
                                                                     10U PYRENE
                                                                      10U BENZYL BUTYL PHTHALATE
     10U N-NITROSODI-N-PROPYLAMINE
                                                                      10U 3,3'-DICHLOROBENZIDINE
     100 HEXACHLOROETHANE
         NITROBENZENE
ISOPHORONE
                                                                      100 BENZO(A)ANTHRACENE
     10U
     100
                                                                      100
                                                                          CHRYSENE
                                                                          BIS(2-ETHYLHEXYL) PHTHALATE
DI-N-OCTYLPHTHALATE
         BIS(2-CHLOROETHOXY) METHANE
     100
                                                                      100
     100 1,2,4-TRICHLOROBENZENE
100 NAPHTHALENE
                                                                      1ÔÙ
                                                                          BENZO(B AND/OR K)FLUORANTHENE
BENZO-A-PYRENE
                                                                      100
     100
         4-CHLOROANILINE
                                                                      100
     100 HEXACHLOROBUTADIENE
                                                                          INDENO (1,2,3-CD) PYRENE
DIBENZO(A,H)ANTHRACENE
                                                                      100
         2-METHYLNAPHTHALENE
                                                                      100
     100
         HEXACHLOROCYCLOPENTADIENE (HCCP)
     100
                                                                      100
                                                                          BENZO(GHI)PERYLENE
         2-CHLORONAPHTHALENE
     10U
                                                                      100
                                                                          PHENOL
     100 2-NITROANILINE
100 DIMETHYL PHTHALATE
                                                                          2-CHLOROPHENOL
BENZYL ALCOHOL
                                                                      100
                                                                      20U
     10U ACENAPHTHYLENE
                                                                          2-METHYLPHENOL
                                                                      100
         2.6-DINITROTOLUENE
                                                                      100
     100
                                                                          (3-AND/OR 4-)METHYLPHENOL
         3-NITROANILINE
     100
                                                                      100
                                                                          2-NITROPHENOL
     100
         ACENAPHTHENE
                                                                      1ÖÜ
                                                                          2.4-DIMETHYLPHENOL
         DIBENZOFURAN
                                                                      200
                                                                          BENZOIC ACID
     1011
         2.4-DINITROTOLUENE
DIETHYL PHTHALATE
                                                                          2,4-DICHLOROPHENOL
4-CHLORO-3-METHYLPHENOL
     100
                                                                      100
                                                                      10Ú
     100
                                                                          2,4,6-TRICHLOROPHENOL
         FLUORENE
                                                                      100
         4-CHLOROPHENYL PHENYL ETHER
     100
                                                                      100
                                                                          2,4,5-TRICHLOROPHENOL
         4-NITROANILINE
                                                                      20ŭ
     100
                                                                          2.4 DINITROPHENOL
     100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
                                                                      20U
                                                                           4-NITROPHENOL
                                                                          2.3.4.6-TETRACHLOROPHENOL
2-METHYL-4.6-DINITROPHENOL
PENTACHLOROPHENOL
     100
         4-BROMOPHENYL PHENYL EIHER
                                                                      100
     10U HEXACHLOROBENZENE (HCB)
                                                                      20U
     100 PHENANTHRENE
                                                                      200
     10U ANTHRACENE
```

100 DI-N-BUTYLPHTHALATE

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

ESD, ATHENS, GA. 10/03/88

EXTRACTABLE ORGANICS DATA REPORT	, , , , , , , , , , , , , , , , , , , ,
	PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1130 STOP: 00/00/00
UG/L ANALYTICAL RESULTS	UG/L ANALYTICAL RESULTS
10U BIS(2-CHLOROETHYL) ETHER 10U BIS(2-CHLOROISOPROPYL) ETHER 10U N-NITROSODI-N-PROPYLAMINE 10U HEXACHLOROETHANE 10U NITROBENZENE 10U ISOPHORONE 10U BIS(2-CHLOROETHOXY) METHANE 10U 1,2,4-TRICHLOROBENZENE 10U NAPHTHALENE 10U 4-CHLOROANILINE 10U 4-CHLOROANILINE 10U 2-METHYLNAPHTHALENE 10U 2-METHYLNAPHTHALENE 10U 2-CHLOROANILINE 10U 2-CHLOROANILINE 10U 2-CHLOROANILINE 10U 2-NITROANILINE 10U ACENAPHTHYLENE 10U ACENAPHTHYLENE 10U 3-NITROANILINE 10U 3-NITROANILINE 10U ACENAPHTHENE 10U DIBETROFURAN 10U 2 4-DINITROTOLUENE 10U DIETHYL PHTHALATE 10U ACENAPHTHENE 10U DIETHYL PHENE 10U FLUORENE 10U FLUORENE 10U 4-CHLOROPHENYL PHENYL ETHER 10U 4-BROMOPHENYL PHENYL ETHER	10U FLUORANTHENE 10U PYRENE 10U BENZYL BUTYL PHTHALATE 10U 3,3'-DICHLOROBENZIDINE 10U BÉNZO(A)ANTHRACENE 10U CHRYSENE 10U CHRYSENE 10U DI-N-OCTYLPHTHALATE 10U BENZO(B AND/OR K)FLUORANTHENE 10U BENZO(B AND/OR K)FLUORANTHENE 10U BENZO(B AND/OR K)FLUORANTHENE 10U BENZO(A,H)ANTHRACENE 10U DIBENZO(A,H)ANTHRACENE 10U BENZO(GHI)PERYLENE 10U PHENOL 10U 2-CHLOROPHENOL 10U 2-METHYLPHENOL 10U 2-MITROPHENOL 10U 2-A-DICHLOROPHENOL 20U BENZOIC ACID 10U 2,4-DICHLOROPHENOL 10U 2,4-FIRICHLOROPHENOL 10U 2,4-FIRICHLOROPHENOL 10U 2,4-FIRICHLOROPHENOL 20U Z,4-DINITROPHENOL 10U 2,4-DINITROPHENOL 10U 2,4-DINITROPHENOL 10U 2,4-DINITROPHENOL 10U 2,4-DINITROPHENOL 10U 2,3,4-6-TEIRACHLOROPHENOL 20U 2,4-DINITROPHENOL 20U 2,4-DINITROPHENOL
10U DI-N-BUTYLPHTHALATE	

REMARKS ***

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

10/03/88

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA SOURCE: CONE MILLS-WHITE OAK STATION ID: SW-03 N BUFFALO CK DOWNGRAD
                                                                       PROG ELEM: NSF COLLECTED BY: A SPAUGH
..
                                                                       CITY: GREENSBORO ST: MC
COLLECTION START: 08/22/88 1215 STOP: 00/00/00
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..
                                                                                                                                   ..
..
                                                                                                                                   ..
UG/L
                        ANALYTICAL RESULTS
                                                                      UG/L
                                                                                          ANALYTICAL RESULTS
    10U BIS(2-CHLOROETHYL) ETHER
10U BIS(2-CHLOROISOPROPYL) ETHER
10U N-NITROSODI-N-PROPYLAMINE
                                                                        10U FLUORANTHENE
                                                                        100 PYRENE
                                                                        100 BENZYL BUTYL PHTHALATE
     100 HEXACHLOROETHANE
                                                                        100
                                                                             3.3'-DICHLOROBENZIDINE
     100 NITROBENZENE
                                                                             BENZO(A)ANTHRACENE
                                                                        100
     100 ISOPHORONE
                                                                        100 CHRYSENE
                                                                        100 BIS(2-ETHYLHEXYL) PHTHALATE
     100 BIS(2-CHLOROETHOXY) METHANE
     100 1,2,4-TRICHLOROBENZENE
100 NAPHTHALENE
                                                                        100 BENZO(B AND/OR K)FLUORANTHENE
     10U 4-CHLOROANILINE
                                                                        10U BENZO-A-PYRENE
                                                                        100 INDENO (1,2,3-CD) PYRENE
100 DIBENZO(A,H)ANTHRACENE
     100 HEXACHLOROBUTADIENE
     10U 2-METHYLNAPHTHALENE
     10U HEXACHLOROCYCLOPENTADIENE (HCCP)
                                                                        100 BENZO(GHI)PERYLENE
     10U 2-CHLORONAPHTHALENE
                                                                        10U PHENOL
     10U 2-NITROANILINE
                                                                        10U 2-CHLOROPHENOL
     100 DIMETHYL PHTHALATE
                                                                        200 BENZYL ALCOHOL
     10U ACENAPHTHYLENE
                                                                        10U 2-METHYLPHENOL
     10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
                                                                        10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2,4-DIMETHYLPHENOL
     10U ACENAPHTHENE
     100 DIBENZOFURAN
                                                                        200 BENZOIC ACID
                                                                            2,4-DICHLOROPHENOL
4-CHLORO-3-METHYLPHENOL
2,4,6-TRICHLOROPHENOL
     100 2,4-DINITROTOLUENE
                                                                        100
     100 DIETHYL PHTHALATE
                                                                        100
     100 FLUORENE
                                                                        100
                                                                        10U 2,4,5-TRICHLOROPHENOL
     100 4-CHLOROPHENYL PHENYL ETHER
     10U 4-NITROANILINE
                                                                        20U 2,4-DINITROPHENOL
     100 N-NITROSOOIPHENYLAMINE/DIPHENYLAMINE
                                                                        200
                                                                             4-NITROPHENOL
                                                                        10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-METHYL-4,6-DINITROPHENOL
     100 4-BROMOPHENYI. PHENYL ETHER
     100 HEXACHLOROBENZENE (HCB)
                                                                            PENTACHLOROPHENOL
     100 PHENANTHRENE
     10U ANTHRACENE
10U DI-N-BUTYLPHTHALATE
```

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

10/03/88

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EXTRACTABLE ORGANICS DATA REPORT
** PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE TYPE: BLKWA PROG ELEM: NSF COLLECTED BY: A SPAUGH ** SOURCE: CONE MILLS-WHITE OAK CITY: GREENSBORO ST: NC ** STATION ID: TB-01 TRIP BLANK COLLECTION START: 08/22/88 1245 STOP: 00/00/00 ***
..
UG/L ANALYTICAL RESULTS
                                                                                             UG/L ANALYTICAL RESULTS
       10U BIS(2-CHLOROETHYL) ETHER
                                                                                               10U FLUORANTHENE
       100 BIS(2-CHLOROISOPROPYL) ETHER
                                                                                               100 PYRENE
                                                                                              100 BENZYL BUTYL PHTHALATE
100 3,3'-DICHLOROBENZIDINE
100 BENZO(A)ANTHRACENE
       10U N-NITROSODI-N-PROPYLAMINE
       100 HEXACHLOROETHANE
       100 NITROBENZENE
       100 ISOPHORONE
100 BIS(2-CHLOROETHOXY) METHANE
                                                                                               100 CHRYSENE
                                                                                               10U BIS(2-ETHYLHEXYL) PHTHALATE
10U DI-N-OCTYLPHTHALATE
10U BENZO(B AND/OR K)FLUORANTHENE
10U BENZO-A-PYRENE
       10U 12,4-TRICHLOROBENZENE
10U NAPHTHALENE
       10U 4-CHLOROANILINE
                                                                                                100 INDENO (1,2,3-CD) PYRENE
100 DIBENZO(A,H)ANTHRACENE
       100 HEXACHLOROBUTADIENE
       100 2-METHYLNAPHTHALENE
       100 HEXACHLOROCYCLOPENTADIENE (HCCP)
100 2-CHLORONAPHTHALENE
                                                                                                      BENZO(GHI)PERYLENE
                                                                                                100
                                                                                                10U PHENOL
       100 2-NITROANILINE
100 DIMETHYL PHTHALATE
                                                                                                10U 2-CHLOROPHENOL
                                                                                                200 BENZYL ALCOHOL
      10U DIMETHYL PHTHALATE
10U 2,6-DINITROTOLUENE
10U 3-NITROANILINE
10U ACENAPHTHENE
10U DIBENZOFURAN
10U 2,4-DINITROTOLUENE
10U DIETHYL PHTHALATE
                                                                                                10U 2-METHYLPHENOL
10U (3-AND/OR 4-)METHYLPHENOL
10U 2-NITROPHENOL
10U 2.4-DIWETHYLPHENOL
20U BENZOIC ACID
                                                                                                100 2,4-DICHLOROPHENOL
100 4-CHLORO-3-METHYLPHENOL
100 2,4,6-TRICHLOROPHENOL
       100 FLUORENE
       10U 4-CHLOROPHENYL PHENYL ETHER
10U 4-NITROANILINE
                                                                                                100 2,4,5-TRICHLOROPHENOL
200 2,4 DINITROPHENOL
                                                                                                2011 4-NITROPHENOL
       100 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
                                                                                                10U 2,3,4,6-TETRACHLOROPHENOL
20U 2-MÉTHYL-4,6-DINITROPHENOL
20U PENTACHLOROPHENOL
       100 4-BROMOPHENYL PHENYL LIHER
       100 HEXACHLOROBENZENE (HCB)
100 PHENANTHRENE
       10U ANTHRACENE
       100 DI-N-BUTYLPHTHALATE
```

REMARKS

REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

10/03/88

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.. **

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA PROG ELEM: NSF COLLECTED BY: A SPAUGH

SOURCE: CONE MILLS-WHITE OAK STATION ID: SW-01 N BUFFALO CK UPGRAD CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1025 STOP: 00/00/00

RESULTS UNITS COMPOUND 20J UG/L 1 UNIDENTIFIED COMPOUND

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RESULTS UNITS COMPOUND

FOOTNOTES *A-AVERAGE VALUE *NA:NOT AMALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE, COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/11/88

PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1215 STOP: 00/00/00 PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA SOURCE: CONE MILLS-WHITE OAK STATION ID: SW-03 N BUFFALO CK DOWNGRAD

RESULTS UNITS COMPOUND 2JN UG/L CHLORODIETHYLTRIAZINE DIAMINE (SIMAZINE)

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

RESULTS UNITS COMPOUND

FOOTNOTES *A-ACTUAL VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29091 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORD ST: NC STATION ID: SD-01 N BUFFALO CK UPGRAD PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORD ST: NC COLLECTION START: 08/22/88 1030 STOP: 00/00/00
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                                                                                                                                                                                -
UG/KG
                   ANALYTICAL RESULTS
                                                                                              UG/KG
                                                                                                                         ANALYTICAL RESULTS
   1600U BIS(2-CHLOROETHYL) ETHER
1600U BIS(2-CHLOROISOPROPYL) ETHER
1600U N-NITROSODI-N-PROPYLAMINE
1600U HEXACHLOROETHANE
1600U NITROBENZENE
                                                                                                430J FLUORANTHENE
                                                                                              390J PYRENE
1600U BENZYL BUTYL PHTHALATE
1600U 3,3'-DICHLOROBENZIDINE
210J BENZO(A)ANTHRACENE
                                                                                                270J CHRYSENE
    1600U ISOPHORONE
                                                                                              1600U BIS(2-ETHYLHEXYL) PHTHALATE
1600U DI-N-OCTYLPHTHALATE
    1600U BIS(2-CHLOROETHOXY) METHANE
    1600U 1,2,4-TRICHLOROBENZENE
                                                                                              1600U BENZO(B AND/OR K)FLUORANTHENE
1600U BENZO-A-PYRENE
1600U INDENO (1,2,3-CD) PYRENE
1600U DIBENZO(A,H)ANTHRACENE
    1600U NAPHTHALENE
    1600U 4-CHLOROANILINE
    1600U HEXACHLOROBUTADIENE
   1600U HEXACHLOROBUTADIENE
1600U 2-METHYLNAPHTHALENE
1600U HEXACHLOROCYCLOPENTADIENE (HCCP)
1600U 2-CHLORONAPHTHALENE
1600U 2-NITROANILINE
1600U DIMETHYL PHTHALATE
1600U ACENAPHTHYLENE
1600U 2,6-DINITROTOLUENE
1600U 3-NITROANILINE
                                                                                               1600U BENZO (GHI) PERYLENE
                                                                                              1600U PHENOL
                                                                                               1600U 2-CHLOROPHENOL
                                                                                              3200U BENZYL ALCOHOL
                                                                                              1600U 2-METHYLPHENOL
                                                                                              1600U (3-AND/OR 4-)METHYLPHENOL
1600U 2-NITROPHENOL
1600U 2,4-DIMETHYLPHENOL
    1600U ACENAPHTHENE
                                                                                              3200U BÉNZOIC ACID
1600U 2,4-DICHLOROPHENOL
    1600U DIBENZOFURAN
    1600U 2,4-DINITROTOLUENE
    1600U DIETHYL PHTHALATE
                                                                                              1600U 4-CHLORO-3-METHYLPHENOL
                                                                                              1600U 2,4,6-TRICHLOROPHENOL
    1600U FLUORENE
    1600U 4-CHLOROPHENYL PHENYL ETHER
1600U 4-NITROANILINE
                                                                                              1600U 2,4,5-TRICHLOROPHENOL
3200U 2,4-DINITROPHENOL
    1600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U 4-BRCMOPHENYL PHENYL ETHER
                                                                                              3200U 4-NITROPHENOL
                                                                                              1600U 2.3.4.6-TETRACHLOROPHENOL
3200U 2-MÉTHYL-4.6-DINITROPHENOL
3200U PENTACHLOROPHENOL
    1600U HEXACHLOROBENZENE (HCB)
     300J PHENANTHRENE
    1600U ANTHRACENE
1600U DI-N-BUTYLPHTHALATE
                                                                                                  29 PERCENT MOISTURE
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REMARKS

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM SOURCE: CONE MILLS-WHITE OAK STATION ID: SD-02 N BUFFALO CK MIDSTREAM PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORD ST: NC COLLECTION START: 08/22/88 1135 STOP: 00/00/00
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                                                                                                                                                                                         ..
. .
                                                                                                                                                                                         ..
UG/KG
                               ANALYTICAL RESULTS
                                                                                                   UG/KG
                                                                                                                              ANALYTICAL RESULTS
    1600U BIS(2-CHLOROETHYL) ETHER
1600U BIS(2-CHLOROISOPROPYL) ETHER
1600U N-NITROSODI-N-PROPYLAMINE
1600U HEXACHLOROETHANE
                                                                                                   1200J FLUORANTHENE
                                                                                                   960J PYRENE
1600U BENZYL BUTYL PHTHALATE
                                                                                                   1600U 3.3'-DICHLOROBENZIDINE
650J BENZO(A)ANTHRACENE
     1600U NITROBENZENE
    1600U ISOPHORONE
                                                                                                    650J CHRYSENÉ
    1600U BIS(2-CHLOROETHOXY) METHANE
1600U 1,2,4-TRICHLOROBENZENE
                                                                                                   310J BIS(2-ETHYLHEXYL) PHTHALATE
    1600U NAPHTHALENE
                                                                                                   1110J BENZO(B AND/OR K)FLUORANTHENE
    1600U 4-CHLOROANILINE
1600U HEXACHLOROBUTADIENE
1600U 2-METHYLNAPHTHALENE
1600U HEXACHLOROCYCLOPENTADIENE (HCCP)
                                                                                                    630J BENZO-A-PYRENE
                                                                                                   1600U INDENO (1,2,3-CD) PYRENE
1600U DIBENZO(A,H)ANTHRACENE
1600U BENZO(GHI)PERYLENE
    1600U 2-CHLORONAPHTHALENE
                                                                                                   1600U PHENOL
     1600U 2-NITROANILINE
                                                                                                   1600U 2-CHLOROPHENOL
    1600U DIMETHYL PHTHALATE
                                                                                                   3200U BENZYL ALCOHOL
    1600U ACENAPHTHYLENE
1600U 2,6-DINITROTOLUENE
1600U 3-NITROANILINE
                                                                                                   1600U 2-METHYLPHENOL
                                                                                                   1600U 2-METHYLPHENOL
1600U 3-AND/OR 4-)METHYLPHENOL
1600U 2-NITROPHENOL
1600U 2,4-DIMETHYLPHENOL
3200U BENZOIC ACID
1600U 2,4-DICHLOROPHENOL
1600U 4-CHLORO-3-METHYLPHENOL
     1600U ACENAPHTHENE
     16COU DIBENZOFURAN
    1600U 2.4-DINITROTOLUENE
1600U DIETHYL PHTHALATE
                                                                                                   1600U 4-CHLORO-3-METHYLPHENOL

1600U 2,4,6-TRICHLOROPHENOL

2,4,5-TRICHLOROPHENOL

3200U 2,4-DINITROPHENOL

3200U 4-NITROPHENOL

1600U 2,3,4,6-TETRACHLOROPHENOL

3200U 2-METHYL-4,6-DINITROPHENOL

3200U PENTACHLOROPHENOL
    1600U FLUORENE
    1600U 4-CHLOROPHENYL PHENYL ETHER
1600U 4-NITROANILINE
1600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U 4-BROMOPHENYL PHENYL ETHER
     1600U HEXACHLOROBENZENE (HCB)
     1200J PHENANTHREME
      300J ANTHRACENE
                                                                                                       24 PERCENT MOISTURE
    1600U DI-N-BUTYLPHTHALATE
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REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

	A REGION IV COD, AIRENO, GA.	10/03/66
PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPES SOURCE: CONE MILLS-WHITE OAK STATION ID; SD-03 N BUFFALO CK DOWNGRAD	PE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO COLLECTION START: 08/22/88 1220 STOP:	00/00/00
		* * * * * * * * * * * * * * * * * * * *
IGOUU BIS(2-CHLOROETHYL) ETHER 1600U BIS(2-CHLOROETHYL) ETHER 1600U N-NITROSODI-N-PROPYLAMINE 1600U HEXACHLOROETHANE 1600U NITROBENZENE 1600U ISOPHORONE 1600U BIS(2-CHLOROETHOXY) METHANE 1600U A-CHLOROETHOXY) METHANE 1600U NAPHTHALENE 1600U A-CHLOROBUTADIENE 1600U HEXACHLOROBUTADIENE 1600U HEXACHLOROBUTADIENE 1600U A-CHLOROMAPHTHALENE 1600U 2-METHYLNAPHTHALENE 1600U 2-NITROANILINE 1600U 2-NITROANILINE 1600U 2-NITROANILINE 1600U 3-NITROANILINE 1600U 3-NITROANILINE 1600U 3-NITROTOLUËNE 1600U 3-NITROTOLUËNE 1600U A-CENAPHTHENE 1600U DIBENZOFURAN 1600U 1600U DIETHYL PHTHALATE 1600U FLUORENE 1600U FLUORENE 1600U 4-CHLOROPHENYL PHENYL ETHER 1600U 4-BROMOPHENYL PHENYL ETHER 1600U 4-BROMOPHENYL PHENYL ETHER 1600U HEXACHLOROBENZENE (HCB) 3000 PHENANIHRENE 400J ANTHRACENE	5100 FLUORANTHENE 4400 PYRENE 1600U BENZYL BUTYL PHTHALATE 1600U 3,3'-DICHLOROBENZIDINE 2800 BENZO(A)ANTHRACENE 3000 CHRYSENE 1600U DI-N-OCTYLPHTHALATE 1600U DI-N-OCTYLPHTHALATE 5600 BENZO(B AND/OR K)FLUORANTHENE 2800 BENZO(B AND/OR K)FLUORANTHENE 1600U INDENO (1,2,3-CD) PYRENE 1600U DIBENZO(A,H)ANTHRACENE 1500J BENZO(GHI)PERYLENE 1600U BENZO(GHI)PERYLENE 1600U 2-CHLOROPHENOL 1600U 2-METHYLPHENOL 1600U 2-ADIOROPHENOL 3100U BENZOIC ACID 1600U 2,4-DICHLOROPHENOL	

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

10/03/88

PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM SOURCE: CONE MILLS-WHITE OAK STATION ID: SD-02 N BUFFALO CK MIDSTREAM ** .. COLLECTION START: 08/22/88 1135 STOP: 00/00/00 4.6 ..

RESULTS UNITS COMPOUND 300JN UG/KG BENZOFLUORANTHENE (MOT B AND/OR K)

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

RESULTS UNITS COMPOUND

FOOTNOTES *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *A-AVERAGE VALUE *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC

3000JN UG/KG BENZOFLUORANTHENE (3 ISOMERS) (NOT B OR K)

400JN UG/KG BENZONAPHTHOTHIOPHENE

COLLECTION START: 08/22/88 1220 STOP: 00/00/00

10/03/88

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RESULTS UNITS COMPOUND 200JN UG/KG CARBAZOLE RESULTS UNITS COMPOUND 400JN UG/KG METHYLPHENANTHRENE (2 ISOMERS) 400JN UG/KG CYCLOPENTAPHENANTHRENE 300JN UG/KG PHENANTHRENEDIONE 300JN UG/KG BENZONAPHTHOFURAN (2 ISOMERS) 700JN UG/KG BENZANTHRACEMONE (2 ISOMERS) 1000JN UG/KG METHYLFLUORANTHENE (4 ISOMERS)

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

SOURCE: CONE MILLS-WHITE OAK STATION ID: SD-03 N BUFFALO CK DOWNGRAD

SOOJN UG/KG METHYLBENZANTHRACENE (8 ISOMERS)

600JN UG/KG TRIPHENYLENE

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PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM

^{***}FOOTNOTES*** *A-AVERAGE VALUE TNA NOT ANALYZED *NAI-INTERFERENCES *J-LSTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

^{*}R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

10/10/88 PESTICIDES/PCB'S DATA REPORT PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1025 STOP: 00/00/00 PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA SOURCE: CONE MILLS-WHITE OAK STATION ID: SW-01 N BUFFALO CK UPGRAD UG/L UG/L ANALYTICAL RESULTS ANALYTICAL RESULTS 0.72U PCB-1232 (AROCLOR 1232) 0.72U PCB-1248 (AROCLOR 1248) 0.44U PCB-1260 (AROCLOR 1260) 0.72U PCB-1016 (AROCLOR 1016) 0.029U ALDRIN 0.017U HEPTACHLOR 0.022U HEPTACHLOR EPOXIDE 0.0250 ALPHA-BHC BETA-BHC GAMMA-BHC (LINDANE) 0.0370 2.10 TOXAPHENE -- CHLORDENE 0.0240 CHLORDENÉ /2 ALPHA-CHLORDENE BETA CHLORDENE GAMMA-CHLORDENE /2 1-HYDROXYCLAR 0.0500 DELTA-BHC 0. 026U ENDOSULFAN I (ALPHA) 0.0330 DIELDRIN 4,4'-DOT (P.P'-DDT) 4,4'-DDE (P.P'-DDE) Q. 048U /2 /2 0.0310 GAMMA-CHLORDANE 4,4'-DDD (P,P'-DDD) TRANS-NONACHLOR 0.0540 0.0290 ENDRIN ALPHA-CHLORDANE /2 0.029U ENDOSULFAN II (BETA)
0.039U ENDOSULFAN II (BETA)
0.054U ENDOSULFAN SULFATE
0.027U CHLORDANE (TECH. MIXTURE) /1
0.72U PCB-1242 (AROCLOR 1242)
0.44U PCB-1254 (AROCLOR 1254)
0.72U PCB-1221 (AROCLOR 1221) 0.0390 CIS-NONACHLOR 0.0540 OXYCHLORDANE (OCTACHLOREPOXIDE) /2 0.0270 0.0690 METHOXYCHLOR 0.074U ENDRIN KETONE

REMARKS

REMARKS

[•]NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL • A~ AVERAGE VALUE

[•]K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN •U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

10/10/88

PESTICIDES/PCB'S DATA REPORT			10, 10, 00
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** PROJECT NO. 88-607 SAMPLE NO. 29092 SAMPLE	TYPE · AMBWA PROG	FLEM: NSF COLLECTED BY: A SPAUCH	
** SOURCE: CONE MILLS-WHITE DAK ** STATION ID: SW-02 N BUFFALO CK MIDSTREAM	CITY	GREENSBORD ST: NC	
** STATION ID: SW-02 N BUFFALO CK MIDSTREAM	COLLI	CTION START - 08/22/88 1130 STOP	: 00/00/00 **
11	VOLE	10110H 31AH1. 00/22/00 1100 310	. 00/00/00
UG/L ANALYTICAL RESULTS	1/3/1	ANALYTICAL RESULTS	
MALITICAL RESULTS	04/ 6	WWELLIONE WESTELS	
O.OG3U ALDRIN	0.600	PCB-1232 (AROCLOR 1232)	
0.016U HEPTACHLOR	0.690	PCB-1248 (AROCLOR 1248)	
0.021U HEPTACHLOR EPOXIDE	0.41U	PCB-1260 (AROCLOR 1260)	
	0.410	PCD-1200 (ARUCLUR 1200)	
0.028U ALPHA-BHC	0,690	PCB-1016 (AROCLOR 1016)	
0.035U BETA-BHC	2.10		
O. O27U GANMA-BHC (LINDANE)		CHLORDENE /2	
0.051J DELTA-BHC		ALPHA-CHLORDENE /2	
0.023U ENDOSULFAN I (ALPHA)		BETA CHLORDENE /2	
0.031U DIELDRIN		GAMMA-CHLORDENE /2	
0.0480 4.4'-DDT (P.P'-DDT) 0.0490 4.4'-DDE (P.P'-DDE) 0.0550 4.4'-DDD (P.P'-DDD)		I III DION I OI ILONDEILE / A	
0.049U 4,4'-DDE (P,P'-DDE)		GAMMA-CHLORDANE /2	
0.055U 4,4'-DDD (P,P'-DDD)		TRANS-NONACHLOR /2 ALPHA-CHLORDANE /2	
0.035U ENDRIN		ALPHA-CHLORDANE /2	
0.042U ENDOSULFAN II (BETA)		CIS-NONACHLOR /2	
0.052U ENDOSULFAN SULFATE	****	OXYCHLORDANE (OCTACHLOREPOXIDE)	19
O. 28U CHLORDANE (TECH. MIXTURE) /1	0.0830	METHOXYCHLOR	<i>/</i> -
0.69U PCB-1242 (AROCLOR 1242)	0.0780		
0.690 PCB-1242 (AROCLOR 1242) 0.410 PCB-1254 (AROCLOR 1254)	0.0700	FIRMING INFINITE	
0.710 FUETES (ANOLUM 1234)			
0.69U PCB-1221 (AROCLOR 1221)			

REMARKS

REMARKS

FOOTNOTES

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10/10/88

PESTICIDES/PCB'S DATA REPORT	EN-VEGTOR IA F	JU, ATHENS, CA.	10/10/66
PESTICIOES/PCD S DATA REPORT			
** PROJECT NO. 88-607 SAMPLE NO	. 29094 SAMPLE TYPE: AMBWA	PROG ELEM: NSF COLLECTED BY: A SPAUGH	••
		CITY: GREENSBORO ST: NC	**
•• SOURCE: CONE MILLS-WHITE OAK •• STATION ID: SW-03 N BUFFALO CK	DOWNGRAD	COLLECTION START: 08/22/88 1215 STOP: (
**			**
UG/L ANALYTICAL R	ESULTS	UG/L ANALYTICAL RESULTS	
		•	
0.049U ALDRIN		O.80U PCB-1232 (AROCLOR 1232)	
O. 018U HEPTACHLOR		0.80U PCB-1248 (AROCLOR 1248)	
O.019U HEPTACHLOR EPOXIDE		0.41U PCB-1260 (AROCLOR 1260)	
O. OSOU ALPHA-BHC		0.800 PCB-1016 (AROCLOR 1016)	
O. O39U BETA-BHC		2.1U TOXAPHENE	
O. 048U GAMMA-BHC (LINDANE)		CHLORDENE /2	
0.051U DELTA-BHC		ALPHA-CHLORDENE /2	
O. O26U ENDOSULFAN I (ALPHA)		BETA CHLORDENE /2	
O. O35U DIELDRIN		GAMMA-CHLORDENE /2 1-HYDROXYCHLORDENE /2	
0.046U 4,4'-DDT (P,P'-DDT) 0.050U 4,4'-DDE (P,P'-DDE) 0.057U 4,4'-DDD (P,P'-DDD)		1-HYDROXYCHLORDENE /2 GAMMA-CHLORDANE /2	
0.0570 4,4'-DDD (P,P'-DDD)		TRANS-NONACHLOR /2	
0.0390 ENDRIN		TRANS-NONACHLOR /2 Alpha-Chlordane /2	
0.045U ENDOSULFAN II (BETA)		CIS-NONACHLOR /2	
0.0450 ENDOSULFAN SULFATE		OXYCHLORDANE (OCTACHLOREPOXIDE) /2	
0.27U CHLORDANE (TECH. MIXTURE)	/1	O. 065U METHOXYCHLOR_	
0.80U PCB-1242 (AROCLOR 1242)	•	0.071U ENDRIN KETONE	
0.800 PCB-1242 (AROCLOR 1242) 0.410 PCB-1254 (AROCLOR 1254)			
0.800 PCB-1221 (AROCLOR 1221)			

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

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PESTICIDES/PCB'S DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE TYPE: BLKWA SOURCE: CONE MILLS-WHITE OAK STATION ID: TB-01 TRIP BLANK
                                                                                   PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1245 STOP: 00/00/00
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..
                                                                                                                                                         ..
                                                                                                                                                         ..
ANALYTICAL RESULTS
    UG/L
                                                                                   UG/L
                                                                                                           ANALYTICAL RESULTS
                                                                                 0.53U PCB-1232 (AROCLOR 1232)
0.53U PCB-1248 (AROCLOR 1248)
0.41U PCB-1260 (AROCLOR 1260)
0.53U PCB-1016 (AROCLOR 1016)
  O.021U ALDRIN
O.014U HEPTACHLOR
  O. 018U HEPTACHLOR EPOXIDE
  O. 025U
           ALPHA-BHC
  0.0310
           BETA-BHC
                                                                                   2.10
                                                                                          TOXAPHENE
  O. 0240
           GANMA-BHC (LINDANE)
                                                                                          CHLORDENE
                                                                                          ALPHA-CHLORDENE /2
BETA CHLORDENE /2
GAMMA-CHLORDENE /2
1-HYDROXYCHLORDENE
  0.0300
                                                                                          ALPHA-CHLORDENE
           DELTA-BHC
  0,0190
           ENDOSULFAN 1 (ALPHA)
           DIELDRIN
  O. 033U
           4.4'-DOT (P.P'-DOT)
4.4'-DDE (P.P'-DDE)
4.4'-DDD (P.P'-DDD)
  0.0460
  0.0310
                                                                                          GAMMA-CHLORDANE
                                                                                          TRANS-NONACHLOR
  0.0440
  O. 0390
           ENDRIN
                                                                                          ALPHA-CHLORDANE
           ENDOSULFAN II (BETA)
ENDOSULFAN SULFATE
CHLORDANE (TECH. MIXTURE) /1
PCB-1242 (AROCLOR 1242)
PCB-1254 (AROCLOR 1254)
PCB-1221 (AROCLOR 1221)
  0.0350
                                                                                          CIS-NONACHLOR
                                                                                          OXYCHLORDANE (OCTACHLOREPOXIDE) /2
METHOXYCHLOR_
  0.0610
   O. 180
                                                                                 0.0650
                                                                                 0.0710
   O. 53U
                                                                                          ENDRIN KETONE
   0.410
   0.530
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REMARKS

FOOTNOTES

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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

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PESTICIDES/PCB'S DATA REPORT
PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1030 STOP: 00/00/00
     PROJECT NO. 88-607 SAMPLE NO. 29091 SAMPLE TYPE: SEDIM
SOURCE: CONE MILLS-WHITE OAK
STATION ID: SD-01 N BUFFALO CK UPGRAD
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                                                                                                                                                  ..
UG/KG
                           ANALYTICAL RESULTS
                                                                               UG/KG
                                                                                                   ANALYTICAL RESULTS
    3.3U ALDRIN
                                                                                48U PCB-1232 (AROCLOR 1232)
                                                                                48U PCB-1248 (AROCLOR 1248)
73U PCB-1260 (AROCLOR 1260)
    3.30 HEPTACHLOR
    3.30 HEPTACHLOR EPOXIDE
    3.3U ALPHA-BHC
                                                                                48U PCB-1016 (AROCLOR 1016)
    3.30 BETA-BHC
                                                                               200U TOXAPHENE
    3.3U GAMMA-BHC (LINDANE)
                                                                               1.70
                                                                                     CHLORDENE
                                                                               3.10
                                                                                      ALPHA-CHLORDENE
    3.30 DELTA-BHC
                                                                               1.70 BETA CHLORDENE /2
3.10 GAMMA-CHLORDENE /2
    3.30 ENDOSULFAN I (ALPHA)
    3.30 DIELDRIN
                                                                               3.10 GAMMA-CHLORDENE
1.70 1-HYDROXYCHLORDENE
5.3 GAMMA-CHLORDANE /2
3.10 TRANS-NONACHLOR /2
2.1 ALPHA-CHLORDANE /2
3.10 CIS-NONACHLOR /2
    5.20 4,4'-DOT (P,P'-DOT)
3.03 4,4'-DOE (P,P'-DOE)
4.5J 4,4'-DOD (P,P'-DOD)
    5.20 ENDRIN
    5.20 ENDOSULFAN II (BETA)
5.20 ENDOSULFAN SULFATE
-- CHLORDANE (TECH. MIXTURE) /1
480 PCB-1242 (AROCLOR 1242)
730 PCB-1254 (AROCLOR 1254)
                                                                               3.10 OXYCHLORDANE (OCTACHLOREPOXIDE) /2
                                                                               100 METHOXYCHLOR
                                                                               5.20 ENDRIN KETONE
                                                                                 29 PERCENT MOISTURE
      48U PCB-1221 (AROCLOR 1221)
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REMARKS

REMARKS

FOOTNOTES

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1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

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PESTICIDES/PCB'S DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM SOURCE: CONE MILLS-WHITE OAK STATION ID: SD-02 N BUFFALO CK MIDSTREAM PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1135 STOP: 00/00/00
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                                                                                                                                    ..
                                                                                                                                    ..
UG/KG
                      ANALYTICAL RESULTS
                                                                        UG/KG
                                                                                            ANALYTICAL RESULTS
                                                                        48U PCB-1232 (AROCLOR 1232)
48U PCB-1248 (AROCLOR 1248)
73U PCB-1260 (AROCLOR 1260)
    4.9U ALDRIN
    4.90 HEPTACHLOR
    4.90 HEPTACHLOR EPOXIDE
    4,90 ALPHA-BHC
                                                                         48U PCB-1016 (AROCLOR 1016)
    4.90 BETA-BHC
                                                                        2000 TOXAPHENE
    4.9U GAMMA-BHC (LINDANE)
                                                                        1.7U CHLORDENE
    4.90 DELTA-BHC
                                                                        3.10 ALPHA-CHLORDENE
                                                                        1.70 BETA CHLORDENE /2
3.10 GAMMA-CHLORDENE /2
    4.9U ENDOSULFAN I (ALPHA)
    3.6J DIELDRIN
                                                                                                72
    5.2U 4.4'-DOT (P.P'-DDT)
5.2U 4.4'-DDE (P.P'-DDE)
4.6J 4.4'-DDD (P.P'-DDD)
                                                                        1.70 1-HYDROXYCHLÖRDENE
                                                                        6.3 GAMMA CHLORDANE
3.10 TRANS-NONACHLOR
                                                                                                /2
                                                                                                /2
    5.20 ENDRIN
                                                                         2.7 ALPHA-CHLORDANE
    5.20 ENDOSULFAN II (BETA)
                                                                        3.1U CIS-NONACHLOR
    5.20 ENDOSULFAN SULFATE
                                                                        3.1U OXYCHI.ORDANE (OCTACHLOREPOXIDE) /2
          CHLORDANE (TECH. MIXTURE) /1
                                                                         10U METHOXYCHLOR
     48U PCB-1242 (AROCLOR 1242)
73U PCB-1254 (AROCLOR 1254)
48U PCB-1221 (AROCLOR 1221)
                                                                        5.20 ENDRIN KETONE
                                                                          24 PERCENT MOISTURE
```

REMARKS

REMARKS

^{***}FOOTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

01/03/89

PESTICIDES/PCB'S DATA REPORT	ETA REGION IV ESS, ATTEMS, CA.	01/03/69
*** PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE	TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1220 STOP: 00/00/0	
UG/KG ANALYTICAL RESULTS	UG/KG ANALYTICAL RESULTS	* * * * * ***
5.0U ALDRIN 5.0U HEPTACHLOR 5.0U HEPTACHLOR EPOXIDE 5.0U ALPHA-BHC 14U BETA-BHC 3.0U GAMMA-BHC (LINDANE) 3.0U DELTA-BHC 3.0U ENDOSULFAN I (ALPHA) 3.0U DIELDRIN 6.5U 4,4'-DOT (P,P'-DOT) 6.5U 4,4'-DOE (P,P'-DOE) 6.5U 4,4'-DOE (P,P'-DOE) 6.5U 4,4'-DOE (P,P'-DOE) 6.5U ENDRIN 6.5U ENDRIN 6.5U ENDOSULFAN II (BETA) 6.5U ENDOSULFAN SULFATE	57U PCB-1232 (AROCLOR 1232) 57U PCB-1248 (AROCLOR 1248) 76U PCB-1260 (AROCLOR 1260) 57U PCB-1016 (AROCLOR 1016) 230U TOXAPHFNE 2.6U CHLORDENE /2 2.6U ALPHA-CHLORDENE /2 2.6U BETA CHLORDENE /2 2.6U 1-HYDROXYCHLURDENE /2 2.6U 1-HYDROXYCHLURDENE /2 2.6U TRANS-NOMACHLOR /2 2.6U TRANS-NOMACHLOR /2 2.6U CIS-NOMACHLOR /2 2.6U CIS-NOMACHLOR /2 2.6U CIS-NOMACHLOR /2 2.6U OXYCHLORDANE (OCTACHLOREPOXIDE) /2 58U METHOXYCHLOR 6.5U ENDRIN KETONE 23 PERCENT MOISTURE	

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

APPENDIX C SI FORM



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT IT 1 - SITE LOCATION AND INSPECTION INFORMATION

OF STATE STATE WAREN

	ANT 1 - SITE LOCATION A	MEDICATION MALOUNTIO	N CC 00001/6/17
H. SITE NAME AND LOCATION			
OT STE MAKE LOSE : STORE & PRESENT AND & CO.	, , , ,	OS STREET, MOUTE NO., OR SPECIFIC	
Cone Mills Cosp. While	Oak Plant	2420 Fairvier	u Street
or cut		ON STATE ON 20 COOR ON CO	
Greensboro		NC 17405 6	Builford III 2
38 COORDINATES	10 TOPE OF CHILLE	Change area	
36 0630 - 279 42	15. TPOTHER		TATE I D COUNTY I E MUNICIPAL I I I UNICIPAL
III. INSPECTION INFORMATION 31 DATE OF NEW CYCHON 02 STE ST	ING STRATEGIE	i i i i i i i i i i i i i i i i i i i	
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Andy Spavah		Isra Manager	NUS CO.P. 1404.938-9710
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Will'e Smitherma	n Healtha	Safety Officer	NIS Corp. 404938-77/C
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V. REPORMATION AVAILABLE PROM			
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Robert Morris	USE	PA	140413425065
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Douglas M. Chatha		nus Corporation Goy	A9=17/10 01 1389
my matha	M	ws wpolanotino	JTJU-11/C GOTH DAY -EM
A POPM 3079-13 (7-01)			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

	IFICATION
31 STATE	000076914
WC	0000776914

			PARI 4 - MINE	te impormatio	~		0776914
II. WASTE !	STATES, QUANTITIES, A	NO CHARACTE	METICS				
31 PHYSICAL	STATES	DE WASTE CLANT	TITY AT SITE	03 WASTE CHARACT	TERETICE COM A RE		
T 4 50U0	SE SLURRY	l .	a, actin different	A TOXE	= # SOLU	AL STREET	
E 8 POWO	en rives (X° victor)	TONS		I C RADIO	ACTIVE TARAM	thous I deplot marks I a practi	ME
is street	-	CUBIC YARDS		= 0 PERM	TENT X HOST	ABLE . ACOM	iangle Puchale
_ 3 3/44	Sent	40 OF ORUMS		1			
III. WASTE !	TYPE						
SAFEGORY	SUBSTANCE Y	IAME	01 GROSS AMOUNT		as comments		
SLU	\$LUDGE						
OLW	STBAW YJIC						
SOL	SOLVENTS		Unknown				
P S 0	PESTICIDES						
OCC	OTHER ORGANIC CH	MEMICALS					
: ○ C	INOPGANIC CHEMIC	ALS					
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844	eages				1		
HES	HEAVY METALS		Unknown	I			
V. HAZARON	OUS SUBSTANCES 4	-					
1 CATEGORY	02 SUBSTANCE N	NOTE: 1	CO CAS MANGER	04 STORAGE/GIG	POSAL NETHOD	06 CONCENTRATION	The state of
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r sources		**************************************			- 7		
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<i>i b</i>	A and St	- Va - L	$\Lambda \mid A \mid $	16-11/11	al (10 C		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION OI STATE IN THE WARE

PART 3 - DESCRIPTION OF	AZARDOUS CONDITIONS AND INCIDENTS	• LNC-1D	000176914
H. HAZARDOUS CONDITIONS AND INCIDENTS			
31 & A GROUNOWATER CONTAMINATION 735	02 C COSSETVED (DATE:	& POTENTIAL	- ALEGED
33 POPULATION POTENTIALLY APPRICATED.	04 MANUATIVE DESCRIPTION	\mathcal{C}	c
the eye waste that	ents may have been disp	posed of	in
The cyc waste matin	ant plant on site		
33 POPULATION POTENTIALLY AFFECTED	02 T OBSERVED IDATE	I POTENTIAL	X *LESES
		,	<i>c</i> (
Discharge of solvents in	ito onsite creek. NPDE	3 airmit	violetien.
1	- '	(-	
C1 I C CONTAMBIATION OF AIR	02 = UBBENVEDIDATE.	- POTENTIAL	I ALLEGED
03 POPULATION POTENTIALLY APPECTED:	04 NAMATIVE DESCRIPTION		
01 X0. FIRE/EDPLOSMS CONDITIONS 03 POPULATION POTENTIALLY APPECTED:	02 C COSSIVED (CATE	A SOUTHWINE	3 ALEGED
wastes reported as	5 gnitable		
. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Y		į
01 EE ORECT CONTACT	02 C COSSIVED (OATE:)	POTENTIAL	I ALLEGED
03 POPULATION POTENTIALLY APPROTED:	04 NATIVE DESCRIPTION	4.0.00	- ~02020
01 G F CONTAMBATION OF SOL	OR CHARGE CONTROL	C POTENTAL	= ALEGED
OS AMEA POTENTIALLY APPECTED:	04 MARMATINE DESCRIPTION		
01 E. C. Creating WATER CONTAMENTON 735	04 MATRITUS GENERAL	A POISING	3 ALLEGED
-t(d(de () \s = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 1 26	
Through possible con	itamination of grow	unawate	\mathcal{A}_{-}
7 1	•		
OI C H. WORKEN CONTROLLIN	OR C CREENED (CATE)	C POTENTAL	C ALEGED
03 WORKERS POTENTIALLY APPETITES	04 NATIVE DESCRIPTION		
	•		
01 CL POPULATION EXPOSURE PLUTY 03 POPULATION POTENTIALLY APPETED.	OF C COMMINED (BATE)	C POTENTAL	C ALEGED
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	On the second lines second lines		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

Į.	DENTIFICATION	
OT A	JC 8000776914	

HAZARDOUS CONDITIONS AND INCIDENTS COM	Negl		
1 I J DAMAGE TO PLORA 4 NARRATIVE DESCRIPTION	92 C ORRETVED (DATE.	S POTEMA	I ALEGEO
1 T 4 DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION INCLUSIVEMENTS OF SECURE	02 - OGGERVED (DATE	I POTENTIAL	2 ALEGED
I L CONTAMINATION OF FOOD CHAIN NARRATIVE DESCRIPTION	02 C COOSENIED (DATE.) I POTENTIAL	2 444560
E. M. UNSTABLE CONTAINMENT OF WASTES SING AND SOUTH WASTES POPULATION POTENTIALLY APPECTED:	02 C CONSTINED (DATE:		,
NAIDES permit violatio	n; alleged discharge	of solvents	into
IN DAMAGE TO OFFSITE PROPERTY HAPPAITNE DESCRIPTION	OR C COSERVED IDATE:	POTENTIAL	S ALEGED
© 0 CONTAMBIATION OF SEWERS, STORM DRAMS, I NARRATIVE DESCRIPTION) © POTENTAL	I ALEGEO
Z P KLEBALIJAVITHORIÇED GUMPNIS NAPIATIVE GESCRUTION	GE CL COMMENTED (CATE:	C POTEMAL	S ALLEGED
DESCRIPTION OF MAY OTHER MICHINA, POTENTIAL, OF	R ALLERSO HAZARES		
TOTAL POPULATION POTENTIALLY APPECTED.			
COMMENTS			
EPA and State of A			

&E	PA

POTENTIAL HAZARDOUS WASTE SITE

I. OENT	TECATION
	B000776914

SEPA	PART 4 - PERM	SITE INSPECT	TION TIVE INFORMAT	10N	WC 5000776914
II. PERMIT INFORMATION					
OT TYPE OF PERMIT SSUED	02 PERMIT NUMBER	OJ DATE SOLED	04 EUFFRATION DATE	08 COMMENTS	
XA HPOES				Violation	in 1972 or 1973
I & VIC				1.5.4.1197	MINIO
IXC AM					
ID RORA					
ME ACRA INTERM STATUS				Witteda	un in 1983
XF SPCC PLAN					
I 3 STATE Season					
CH LOCAL Section					
I OTHER SHAPE					
IJ NONE					
HI. SITE DESCRIPTION					
01 STORAGE, DIBPOSAL, . Choose of micr equips	-				OS GTHER
X A. SUPFACE IMPOUNDMENT	10,000 G	21_ OAI	NCENERATION		A BUILDINGS ON SITE
C 8. PLES C C DRUMB, ABOVE GROUND			MOSTOROUMO PLE		bit or enemoning on all.E
C D. TANK ABOVE GROUND			HOLOGICAL MOLOGICAL	L	}
I E. TANK, BELOW GROUNG		1 7 7	MARTE OL PROCESS		OR AND STE
OF LIMBRUL .		I	CLVENT RECOVER		>
I G UNOFAM			THEN RECYCLINE	MECOVERY	153
= H. OPEN DUMP		C × 1			1
South					1
V. CONTAINMENT					
CONTACTOR OF WASTERNAMEN					
C A ADBOUATE SECURE	C & MODELNIE	A C MOSCU	ATE, POOR	C D. MARCO.	ME UNICOUND, DAVIGEMOUS
No documentation Jagoons		n waster	valer transins,	eatnen	plant
V. ACCESSIBLITY					
Facility is sur	rounded by	a fence	, with	gales	and security
					·
EPA and State of NVS Corp. Logber	North Carellats FL-791	ina files	-1007 an	d pho	Yographs.

≎EPA			TION REPORT		OF STATE OF STE NUMBER OF STATE OF STE NUMBER
H. DRINKING WATER SUPPLY					
OF TYPE OF ORDERED SUPPLY		02 STATUS			OS CISTANCE TO SITE
SUMFACE		ENDANGERE	D APPROTED	MONTORED	, 0
COMMUNITY A I	●.□ • ※	A. 🗆 0 🔾	8. G 6. 3	G. 🖸 F 🚍	A(m)
III. GROUNDWATER					
31 GROUNDWATER USE IN VICENTY CHAN MA CHLY SOURCE FOR ORBINING	C & ORDORDOS	DOSTINAL ARROATION OF PROBLEM	//	CIAL PICULTURAL PRODAT	TION I D MOT USED, UNUSEABLE
DZ POPULATION SERVED BY GROUND WA	735		03 DISTANCE TO ME	LAFREST CREATERS WATER	1.9
04 DEPTH TO GROUNDWATER	os ainection of and	UNOWATER FLOW	04 00 TH TO AOUT	or source	2 PC C YES X40
One non-communicated small communicated wells; no alter	fy well lo fy located mate source	ealed at 1 25-4 cc availa	a church miles fr ble. We	jakernate om facilit Ils in Green	source available y uses private sboro area 90-150ff
10 MED WINES ANEA			11 CHOWAN WE		
© YES COMMENTS			C NO		
IV. SURFACE WATER					
O1 SUPFACE WATER USE chair and G A RESERVOIR RECREATION OFFICIALS WATER SOURCE	G & ATTENTION	N SCONGMICALLY TRESCURCES	C) C. COMM	POAL PIOUSTRAL	E B. NOT CURRENTLY USED
North Rottale	Creok			APTESTED	ONSTANCE TO SITE ONSTANCE TO SITE ONSTANCE TO SITE ONSTANCE TO SITE
V. DEMOGRAPHIC AND PROPERTY OF TOTAL POPALATION WITHOUT CHE (1) MILE OF SITE THE A CONT. IN THE	OR LEADER OFF	norm (s	MALES OF STR	CO CORPORATE TO HELD	<0 () into
MAN	4		04 6007A4458 TO HE	<u> </u>	
The area , sur	rounding	the face	ility is	primari	by residential

2.EDA

POTENTIAL HAZARDOUS WASTE SITE

WCTA .	PARTS - WATE	site inspec R. Demographi	TION REPORT C. AND ENVIRON		NC DOOTTE
i. Environmental infori	MATION			MENTAL DATA	NC D0007769
PERMEABUTY OF . NATURATED					
I 4 10-4 - 1	0-4 cm/ses × 8. 10-4 -	- 10-4 cavees 3 (C. 10-4 - 10-3 anves	C C. GREATER TH	IAN 10-3 cm/see
PERMEABLING IF SEUROCK CHA	E/ ener				
	MIEABLE X B RELATI	VELY IMPERMEABLE	C RELATIVELY	ERMEABLE IO VE	RY PERMEABLE
DEPTH TO BEDROCK	J4 DEPTH OF CONTAMNAT	ED SOIL ZONE	35 SOL an	-	300 maga +3 ^{m 2} ±m 1001
<u> </u>					
ET PRECIPITATION	OF ONE FEAR 24 HOUR RAIN		31.004		
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DOO POTENTIAL	10			NE	7.5
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SITE IS ON BARRIER	IELAND. COASTAL HIS	M HAZARD AREA, RIV	
TANCE TO WETLANDS I ANY THE			DISTANCE TO CHITCAL		E-WE PCOODWAY
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D USE IN VICENTY		(114)	Services Sa	1C41:	
:					
ROBE OF RECREATION A	but Carolina ad. Mas 7.5 by Branch.				

&EPA	-		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	DI STATE TO STATE OF THE STATE
IL SAMPLES TAKE	DN			
SAMPLE TYPE		SAUCE TARRE	03 \$447 16 \$677 70	STAD GETAMITE ED
GROUNDWATER				
SURFACE WATER		3	USEPA, ESD, Athens, GA,	13-1-88
MASTE				
AMR				
AUNOFF				
SPILL				
son Gelin	ren F	3	sane as above	1-1-89
VEGETATION				
on-en				
IL FIELD MEASURE	MENTS TA			
01 TYPE		OR COMMENTS		
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		-		
				
N. PHOTOGRAPHS			A Consension	
or the Concust			as a custom or	
DE YES	00 LOCATION	VVS Files		
V. OTHER PIELD BA	TA COLLEC	TE) ~~~~~		
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VI. SOURCES OF THE	PORMATIO	1 de cust accus a		
Whi	+ N Ye ON	t Play,	Ang. 22, 1988	tor CON NIII5 -

SEPA		POTENTIAL HA	ZARDOUS WASTE SITE	I. IOENTI	FICATION
ACLV			SITE INSPECTION REPORT PART 7 - OWNER INFORMATION		6000776914
H. CURRENT OWNERS			PARENT COMPANY / COMPANY		
Come Mills Corp. White	Oak Phi	DS 0+6 MARES	Come Mills Corpor	atton	00 0 + 8 MANGER
2400 Pairview	Street	04 SIC CODE	10 STREET ACCRESS IP 0 Bos. APD and I		11 SC 0008
breenstoor o		107 2F CCC4	13 CITY	13 STATE	1 + ZP CCOE
O1 HAME		020-6 14465	OS PAME		OP D - B NUMBER
03 STREET ADDRESS # 0 dec. 4/0 # em ;		04 SC COOS	10 STREET ACCRESS (P G das. AFG 6 cm.)		I SIC CODE
of City	OS STATE	07 20 COOS	12017	13 STATE	1 & UP CODE
O1 MANE		02 0+6 MANGER	08 NAME		09 0 - 8 NUMBER
DIS STREET ACCRESSIF O das MED F att.		04 85 0008	10 STREET ACCRESS IF Q. Co. AND F IN.		119C COOE
Ne city	OG STATE	07 20 COOL	18 0114	13 SYATE	1
DI MANG	-	02 0+0 NAMES	00 HARE		000-6 N.A.GER
03 STREET ACCRESS (P 0 day MO F ms.)		0+ 8E CC08	10 STREET ASSAUSS IF Q day AND F day		11 SIC COOR
SEGIV	GO STATE	07 25 COM	18 GIV	1387418	14 2P COOE
IL PREVIOUS OWNERS) AS THE THE P	 _	<u> </u>	N. REALTY OWNERS / guests		<u> </u>
) read		00 0+0 MARSH	01 NAME		02 0+0 HUMBER
33 STREET ACCRESS (F Q. day, APS F. day)		64 BU COM	40 00000 4000000 C 60 000 C		04 SEC COOS
6 GIV	W(\$/4).0	# Design	WW.	CO STATE	er ar cone
T ROLL			of states		MI S-1 HARM
NO STREET ASSESSMENT & SILL APPA COL		6888	00 (FFEET ASSESSED OF 8 (In. 1794), case		04 SE CCC6
SCAT		V bas	www.	65 SIAN	07 37 COSE
I will		07 0+ 8 HAZZEN	OT NAMES		OF SHEME
S STREET ASSESSED & COLUMN COL		64 SE COM	00 STORY ASSESSMENT & Gas 450. Gas		04 SE COOR
USAN .	NAME OF TAXABLE PARTY.	# Desir	al diffe	35 S/A/4	87 25 CODE

EPA and State of North Carolina files

O EDA		PC	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFE	
SEPA			PART & OPERA	CTION REPORT LTOR INFORMATION	01 37 27 02	000776914
II. CURRENT OPERAT	OR ~~~	-		OPERATOR'S PARENT COMPAN	Y	
C1 NAME			04 0+0 Pe.mi ce h	10 MAGE		1 0 - 0 MAC (A
DO STREET ACCRESS #0	ME APR P APR I		04 SEC COOR	12 STREET ACCRESS (F.O. Ans. APP.) (82)		13 36 0000
as and		OR STATE	07 DP COOS	14 CTV	19 STATE	ELP COOR
DE YEARS OF OPERATION	OF NAME OF CHARGE	<u> </u>				
M. PREVIOUS OPERAT	OR(8)	** 17-49 191	/ Officer Ten compt	PREVIOUS OPERATORS' PAREN	T COMPANIES	
01 444	•		08 0+ 6 MUMBER	10 wast		1 0-6 NUMBER
OS STREET ACCRESS . P.O. M.	s. 440 d ess.)	<u> </u>	04 SE COO	12 STREET ACCRESS IF G as APP # 1		13 SC COOE
os arv		OS STATE	of 50 code	14 GTV	18 87ATE 1	• 29 COOR
DE YEARS OF OPERATION	66 hade of current	JUG THE	70x3		<u>_</u>	
OI MANG		8	E S+ SHAREST	16 1646		1 0 - 0 MUMBER
03 STREET ACCURAGE (* C. Co.	. 490 m.j		C4 85 COM	12 STATES ASSESS (F. & Co. AND C. CO.)	<u></u>	13 95 0008
s arv		CO STATE OF	7 27 0001	14 GIV	18 STATE 1	6 29 COOE
NEWS OF CHEMICAL	00 much of Chinan	LUTHIS THES	/0100			
i nud			10-014A-000	10 100		1 0+8 Number
STITUTE ASSISTANCE OF A SEC	A-7 0. (a)		0.00	15 000 A 400 A 400 A 400 A 400		13 85 6068
GIV			7 5 600	14 687	16 6/2/6	3 000
SVEWS OF CHEWICH	SO THE O'CHIEF	355	10.13			
IV. SOURCES OF INFOR	-	4			سال و من المن المناسلان	
	:					

&EPA		SITE INSPI	ARDOUS WASTE SITE ECTION REPORT RANSPORTER INFORMATION	OF STATE 3	5000776914
II. ON-SITE GENERATOR					
O' NAME		02 0+8 MUNICIPA			
CO STREET ADDRESS # 2 des 400 f etc.		04 SEC COOR	1		
is diff	OS STATE	07 ZP COOR	-		
III. OFF-DITE GENERATORIS)					
OI NAME		02 0+8 MM868	O1 MAN		#38MJ# 8 - C SC
J STREET ADDRESS P 0 And APO P me /	······································	04 SEC COOR	03 STREET ACCRESS IP O Box. APO P col.		34 SC 000€
6 QTV	OG STATE	67 29 COOL	06 CITY	OG STATE	07 20 CCCE
1 HAME		02 0+0 PLANESS	OI PANE		A38MUM 8 - 0 SC
STREET ACCURAGE IP O. One. APD F. ORL.		04 8C 0008	03 STREET ADDRESS (P G. CO. AND P. CO.)		94 SIC COOE
6 affv	OS STATE	67 20 COM	94 CTV	OS STATE	7 2 cook
V. TRANSPORTER(S)					
Nucl.		SE S+6 INCAMENT	OT HAME	ſ	REDMUM B+0 SC
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PART RESPONSE ACTIVITIES

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	PART 10 - PAST RESPONSE ACTIVITIES	10c/40007/6719
II PAST RESPONSE ACTIVITIES Comment		
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31 I S CAPPING COVERING 34 DESCRIPTION	02 DATE	O3 AGENCY
31 E * BULK TANKAGE REPARED 34 DESCRIPTION	OS DATE	O3 AGG/CY
01 3 U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	GS DATE	03 A084CY
01 I V BOTTOM SEALED 04 DESCRIPTION	OZ DATE	03 AGENCY
01 I W GAS CONTROL 04 DESCRIPTION	02 BATE	OS AGENCY
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L SOURCES OF INFORMATION ASSESSMENT		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

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IL ENFORCEMENT INFORMATION

Q 1	PAST	**COLLATOR	ENFORCEMENT	ACTION	Xves	= * 0
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32 DESCRIPTION OF FEDERAL STATE LOCAL REQULATORY/BIFORCEMENT ACTION

NPDES permit violation in 1972 or 1973, Company paid \$ 15,000 time. Regulatory/enforcement detion by the State of North Carolina.

EL SOURCES OF REPORTATION also areals absents 44, are the areas areas.

EPA and State of North Carolina files,

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 Site Location and Inspection Information
- Part 2 Waste information
- Part 3 Description of Hazardous Conditions and Incidents
- Part 4 Permit and Descriptive Information
- Part 5 Water, Demographic, and Environmental Data
- Part 6 Sample and Field Information
- Part 7 Owner Information
- Part 8 Operator Information
- Part 9 Generator/Transporter Information
- Part 10- Past Response Activities
- Part 11 Enforcement Information
- Part 1 Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stags. Instructions are given below.
- Part 2 Waste Information and Part 3 Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hearrds, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedsteek names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is leasted behind the instructions for the Site Inspection Report.

A number of the data lasts collected throughout the Site Inspection Report support the Site Renking Medal. The majority of these data items gre found in Part 5 — Westr, Demographic, and Environmental Data.

General Instructions

- 1. Complete the Site Inspection Report form as completely as possible.
- 2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
- 3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, II-08 Coordinates, and II-10, Type of Ownership.
- 4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a bound sign (a). To ensure that the proper action is taken, buttime me item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" deletel or "C" (change).

5. There are two options available for adding, deleting or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "O" or "C" to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Leastlen and Inspection Information

- 1. Identification: Identification (State and Site Number) is the site record key, or primary identifier. for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
- *1-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
- *1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. Site Name and Leastlen: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management precedures.
- eti-01 Site Name: Enter the legal, common, or descriptive name of the site.
- att-62 Site Street: Enter the street address and number (if appropriate) where the site is located, if the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jet 1-295 & US 99; Past Rd. 5 mi W of Rt. 5.
- ati-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
- at 1-04 Site State: Enter the two character elpha FIPS code for the state in which the site is located. The code must be the same at in.item 1-01.
- sti 05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site 1:002160.

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- #iii-36 Site 33unty Enter the name of the county parish Louis-anal or corough Alaska) in which the site silocated
- #11-07 County Code. Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
- #11-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- *#i1-09 Coordinates. Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
- #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the sits is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.

III. Inspection Information

- *111-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
- *111-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inective storage or disposal area. Inective sites are those at which treatment, storage, or disposal activities no longer occur.
- #111-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1832, of site operation. Cheek Unknown if years of operation are not known.
- *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
- 111-05 Chief Inspessor: Enter the name of the chief, or lead inspessor.
- 111-06 This: Enter the Chief Inspector's title, e.g., Team Leader, FIT team,
- 111-07 Organizations Enter the name of the organization where the Chief Inspector is employed, e.g., EPA -- Region 4, VA State Health Dept., Environmental Research Co.
- 111-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
- III-08 Other Inspectors: Enter the names of other parties participating in the inspection.
- III-10 Title: Enter the titles of other parties participating in the inspection.
- III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
- 111-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties perticipating in the inspection.

- of individuals representing responsible parties from viewed in connection with the inspect on the viewed do not necessarily occur during the inspect tion.
- 111-14. Title: Enter the titles of the individuals interviewed
- III-15 Address: Enter the business, mailing, or resident at addresses of the individuals interviewed.
- 111-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate pox to indicate whether access to the site was gained through permission or warrant.
- 111-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3 24 p.m., enter 1524,
- 111-19 Weether Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Aradiable From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contast.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-65 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-GS Organization: Enter the name of the organization wighin the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was proported.

Part 2 Waste Information

- •1. Identification: Rolar to Part 1-1.
- 18. Waste States, Constitutes, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hearts peeds by the waste, considering acute and otheris health offers and mobility along a partnery.

- 1 31 Physical States Sheek the appropriate box est to indicate the state's of waste present at the site. If Other's indicated, specify the physical state of the waste.
- *11:02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as post tons and cubic yards.
- *II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site, if waste at the site poses no hazard, check Not Applicable.
- 111. Waste Cetagory: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- *III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tone (MT), tons (TN), cubic meters (CM), cubic yerds (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- "III-02 Unit of Measure: Enter the appropriate unit of measure, MT (metric tors), TN (tors), CM (cubic measure, CY (cubic yerds), DR (number of drums), AC (acres), AF (acre fest), LT (liters), or GA (gallons) next to the estimate of eross amount.
- 111-03 Comments: Comments may be used to further explain, or provide additional information, about perticular wasts categories.
- IV. Hazardess Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed these data items marked with an "et" sign (©) must be included.
- ©IV-01 Category: Error in front of the substance name the three character waste estagory from Sestion III which best describes the substance, e.g., OLW (Oily Waste).
- 91V-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or escaped abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- 61V-03 CAS Number: Enter the number essigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers, CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "986".
- 91V-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: \$1 (surface impoundment, including pits, ponds, and legisland), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landferm), OD (open dump).

- IV-05 Concentration. Enter the concentration (1994) stance found in samples taken at the size
- IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG = UG/L.

V. Feedstacks

- , , - <u>- - - -</u> -

- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each free stock named. See the Appendix for feedstock CAS Numbers.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, orficial records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 Description of Hexardous Conditions and Incidents
 *1. Identification: Refer to Part 1-1.
- II. Heserieus Conditions and Incidents:
 - 11-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
 - 11-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater commination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the alte.
 - 11-08 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially effected. For Soil enter the number of arms potentially effected.
 - 11-06 Nerrethe Description: Provide a nerretive description, or explanation, of each condition. Include any additional information which further explains the condition.
 - 11-05 Description of Any Other Known, Potential, or Alleged Heserds: Provide a nerrotive description of any other heserdous, or potentially hezerdous, condistances the site net covered above.
- 111. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hexardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hezards may be entered here.

Sources of information in The sources used to obtain information for this form Sources dited may include sample analysis, reports, inspections, official records, or other occumentation. Sources dited provide the basis for information entered on the form and may be used to obtain further information about the site.

Pert 4 Permit and Descriptive Information

*I. Identification: Refer to Part 1-1.

II. Permit Information

- 11-01 Type of Permit Issued: Check the appropriate boxies to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- 11-02 Permit Number: Enter the permit number for each issued permit.
- 11-03 Date Issued: Enter the date each permit was issued.
- II-04 Expiration Date: Enter the date each permit expires or expired.
- II-05 Comments: Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01 Storage/Disposel: Check the appropriate box(es) to indicate the types of storage/disposel facilities found at the site. If Other is checked, specify the type of facility.
- "111-02 Amount: Enter the gross amount of waste associated with each type of storage/disposal facility.

 Amounts may be measured in: matrix tors, tors, cubic meters, cubic yards, drums, acres, sare feet, liters, or gallons.
- *III-03 Unit of Measure: Enter the appropriets unit of measure for each entry. Units of measure are MT (metric tone), TN (tone), CM (cubic meters), CY (cubic yards), DR (drume), AC (acres), AF (acre feet), LT (liters), or GA (gallens).
- *III-04 Treatment: If waste is treated at the site, check the appropriated box(sa) to indicate treatment methods used. If Other is checked, specify treatment method.
- 111-06 Other: If there are buildings on site, check this ben.
- *III-06 Area of Site: Enter total area of site in earth.
- 111-07 Comments: Enter any other partitions information.
- IV. Containment: Containment is a measure of the natural or artificial means when to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.
 - *IV-01 Containment of Wastes: Check the appropriate best to indicate the condition of containment measures at the site. When choosing the appropriate best, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hezardous substances.
 - IV-02 Description of Drume, Diking, Liners, Serriers: Provide a nerrative description of the condition of containment measures at the site, e.g., waste ade-

- quatery contained, drums rusting and leaking and contaminating leaking and contaminating leaching into soil and groundwater.
- V. Accessibility: Accessibility is an indicator of the potential for direct contact with hazardous substances.
 - *V-01 Waste Easily Accessible: If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.
 - V-02 Comments: Additional information about accessibility to hazardous waste may be provided.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Weter, Demographie, and Environmental Deta

*1. Identification: Refer to Part 1-1.

- 11. Drinking Water Supply
- II-01 Type of Drinking Water Supply: Check the appropriate bex(as) to indicate the types and sources of drinking weter within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- 11-02 Status: Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminents from the site. Check the appropriate best to indicate if the water supply is being manitored for possible contamination.
- 11-03 Distance to Site: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Grandwin

- 111-01 Groundwater Use in Visinity: Chesk the appropriate best to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contemination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the visinity of the site. Orinking: Commercial, Industrial. on indicates that groundwater is used for drinking, but that other limited drinking sources are evallable and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are evallable. Not used, Unussable indicates that groundwater was in the area is not critical.
 - Population Served by Groundwater: Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from serial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

- 3.3 Distance to Neatest 2017king Water Weile Enter the distance in miles to the hearest tenth hundredth or thousandth is needed to indicate the precision reduired) from the 3/18 to the hearest drinking water well.
- 111-04 Depth to Groundwater: Enter the depth in feet to groundwater.
- iii-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.
- III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.
- III-07 Potential Yield of Aquifer: Enter the potential yield of the equifer in gallons per day.
- 111-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.
- III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including useage, depth, and location relative to population and buildings.
- 111-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.
- III-11 Discherge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

- IV-01 Surface Weer Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserva; Commercial/Industrial; Net Currently Used.
- IV-02 Affected/Potentially Affected Sedies of Weter: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in complex of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required),

V. Demographic and Fragerty Information

- V-01 Total Population Within: Enter the total population within one (1) mile, tare (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but assolutes transients in the neighborhood or on less! highways and reads. When estimating population from earlid photographs or other sources, the convenien factor is 3.8 persons for each dwelling unit or 3 persons per sore in rural areas.
- V-02 Distance to Nearest Population: Error in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

- tance from the site boundary to the hearest population (one person minimum)
- V-03 Number of Buildings Within Two 2: M = 37 [14] Enter the number of buildings within Two = 45 from the boundaries of the site.
- V-04 Distance to Neerest Off-Site Building: Enter the distance in miles to the neerest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.
- V-05 Population in Vicinity of Site: Provide a namative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

- VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.
- VI-02 Permeability of Sedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.
- VI-03 Depth to Sedrock: Enter the depth to bedrock in feet.
- VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in fast.
- VI-05 Soil pH: Enter the pH of the soil in the vicinity of the size.
- VI-08 Net Presigitation: Error net precipitation in Inches. If not presipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual presipitation.
- VI-97 One Year 24 Hour Reinfell: Erner in inches the figure for one year 24 hour rainfell.
- VI-08 Stops: Enter the parameters of site slope, the direction of site slope, and the percentage of the surrounding terrain everage slope.
- VI-09 Fleed Petantial: Enter the boundary year for the fleedplain in which the site is leasted. Sites fleeded annually are in a 1 (ent) year fleedplain. Other examples include 10, 29, 80, 100, 800, etc., indicating the grabability of fleeding within that time period.
- VI-10 Site is an Servier Island, Coastal High Hazard Area, Riverine Fleedway: If sits is leasted in one of these areas, check this best.
- VI-11 Distance to Worlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the classest wetlands (five agre minimum) for Estuarine and Other types of westends.
- VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

in an endangered lideoles. Enter the namers) of the andangered species

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- 1.13 Land Use in Vicinity. Enter the distance in miles to the nearest tenth. Tundredth, or thousandth (as needed to indicate the precision required) to the nearest. Commerciavindustrial area: Residential Area, National/State Parks, Forest, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pestural, rangs, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural and, frequently considered marginal.
- 10-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.
- Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- art 6 Sample and Field Information
- . identification: Refer to Part 1-1.
- . Semples Taken
- 11.02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.
- II.03 Estimated Date Results Available: Enter the estimated mared date the results are expected to be evaluate.
- 111. Pistd Messvenore Takes
- 111-01 Type: Ener the type, e.g., redesability, explainity, organic vaper or gas detection and enables, respectively, type gas detection, of each field measurement when.
 - III-02 Comments: Describe results of field assessments, whether they were taken on or off site, and if applicable, the type of disputed facility tental, e.g., drum, surface impoundments, lendfill.
 - /. Photograph and Man
- IV-01 Type: If photographs of the site hare been taken, check the appropriets bexief to indicate the type.
- IV-02 In Custody Of: Enter the name of the erganization or person who has eutody of the phosographs.
- IV-03 Maps: Cheak the seprepriors best to indicate that maps of the site area have been properties of the site area.
- taines.

 1V-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hezardous
- Other Field Dess Cellected: Provide a narrative description of any other field data collected.

Meteriete Division.

Sources of Information in stiffle sources used the tain information for this form Sources used the include: sample analysis, reports, inspections and inspections the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

- •1. Identification: Refer to Part 1—1.
- Current Owner(s) Perent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by an other company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.
- II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, aspeciation, individual, etc.
- 11-02 D&& Number: Where available, enter the owner's D&& (Dun and Bradstreat) number. If the current owner is a federal agency, enter the GSA identification code.
- 11-03 Street Address: Enear the business, mailing, or residential street address of the owner.
 - II-04 SIC Code: If applicable, enter the owner's primary SIC Code.
- II-05 City: Enter the city of the owner's business, mailing, or residential address.
- 11-08 State: Enter the two character sights FIPS code for the state of the corner's business, mailing, or residential address.
- II-07 Zip Cade: Enter the five digit zip code for the owner's business, mailing, or residential address.
 - 11-08 Name: If the currer is a party or wholly owned subsidiary of another company, enter the legal name of the currer's parent company.
 - II-49 D46 Number: Enter the parent company's Dun and Braderes number.
- 11-10 Street Addres: Erest the business or mailing street address of the perunt company.
 - II-11 SIC Ceds: If applicable, ever the perent company's primary SIC each.
- 11-12 City: Ener the eity of the parent company's business or mailing address.
- II-13 Sum: Enter the two character alpha PiPS code for the same of the parent company's business or mailing ediffeet.
- 11-14 Zip Code: Enter the five digit zip code for the parent company's business or mailing address.
- Previous Computal: Like provious commans in reverse chromotogical order, i.e., meet recent first. If additional speed is required, complete another Part 7

Ę

III-01 Name: Enter the legal name of the previous owner.
The previous owner may have been a firm, government agency, especiation, individual, etc.

- 32 DBB Number Enter The previous owner's Dunland Bradistreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- 411-03 Street Address. Enter the business, mailing, or residential street address of the previous owner.
- 111-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- 111-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- 111-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- 111-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. Realty Owner(s): Realty owner applies when the owner lessed to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
 - IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Enter the previous owner's Dun and Bredstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
 - IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
 - 1V-04 SIC Code: If applicable, enter the resity owner's primary SIC Code.
 - IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
 - 1V-06 State: Enter the two character alphe FIPS code for the state of the realty owner's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form, Sources elted may include: sample enalysis, reports, inspections, official records, or other documentation. Sources cited provide the legis for information entered on the form and may be used to obtain further information about the site:

Part 8 Operator Information

- *1. Identification: Refer to Part 1-1,
- Current Operator—Operator's Parent Company: Information on operators is applicable when the operator is not the corner.
 - II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
 - 11-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.

- of 03 Street Address. Enter the operator's pusiness on, and, or residential street address.
- 11-04 SIC Code: If applicable, enter the operator's or many SIC Code.
- 11-05 City: Enter the city of the operator's business, mailing, or residential address.
- 11-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- 11-07 Zip Code: Enter the zip code of the operator's pusiness, mailing, or residential address.
- 11-08 Years of Operation: Enter the beginning and ending years for beginning only if operations are on-going; e.g., 1932/1948, of operation at the site.
- 11-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's perent company Oun and Stadstreet number if available.
- 11-12 Street Address: Enter the operator's perent compeny business, mailing, or residential street address.
- II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- il-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character eighe FIPS code for the state of the operator's parent company business, meiling, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. Previous Operatoris)—Previous Operators' Perent Companies
 - 111-01 Name: Enter the legal name of the previous operater. The previous operator may be a firm, government agency, association, individual, etc.
 - 111-02 D&S Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if evaluable.
 - 111-Q2 Street Address: Enter the previous operator's business, mailing, or residential street address.
 - 111-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
 - III-05 City: Enter the city of the provious operator's business, mailing, or residential address.
 - 111-06 State: Enter the two character sighs FIPS code for the state of the gravious operator's business, mailing, or residential address.
 - 111-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
 - 111-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the sits.
 - III-08 Name of Owner: Enter the name of the owner for the period cited for this operator.

- 1.10 Name 1, 300-130 all enter the legal name of the previous operator's parent company.
- III-11 D&B Number Enter the previous operator's parent company Dun and Bradstreet number if available.
- 111-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- 111-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.
- IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

- *1. Identification: Refer to Part 1-1.
- On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.
 - 11-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The en-site generator may be a firm or government agency.
 - II-02 D&B Number: Where evallable, enter the en-site generator's D&B (Dun and Bredstreet) number. If the on-site generator is a federal agency, enter the G\$A identification code.
 - II-03 Street Address: Enter the business or mailing street address of the on-site expension.
 - 11-04 SIC Code: If applicable, enter the en-site generator's primary SIC Code.
 - 11-05 City: Enter the city of the en-site generator's business or mailing address.
 - 11-06 State: Enter the two character alpha FIFS code for the state of the en-site generator's business or mailing address.
 - 11-07 Zip Code: Enter the five digit zip code for the ensite generator's business or mailing address.
- III. Off-Site Generoteris): These companies or agencies off-site who have generated waste which has been disposed at the site are listed here.
 - III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government seasoy.
 - 111-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

- 111-03 Street Address: Enter the business or maying address of the off-site generator
- 111-04 SIC Code: If applicable, enter the off site peners tor's primary SIC Code.
- III-05 City: Enter the city of the off-site generator siquisiness or meiling address.
- 111-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or maining address.
- III-07 Zip Code: Enter the five digit zip code for the orf site generator's business or mailing address.
- IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.
 - IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.
 - IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.
 - IV-04 SIC Code: If applicable, enter the transporter's primery SIC Code.
 - IV-05 City: Enter the city of the transporter's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.
 - IV-07 Zip Cade: Enter the five digit zip code for the transparter's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the cite.

Part 10 Past Response Authrities

- 91. Identification: Roler to Part 1-1.
- II. Part Remoces Activities
 - II-01 Past Response Activities: Check the appropriate best(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.
 - 11-02 Date: Enter the start date (or approximate date) of the activity.
 - 11-03 Agency: Enter the name of the Agency responsible for the authlity.
 - 11-04 Description: Provide a brief nerretive description of the assisty.
- \$10. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample energyle, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

- 10020 UM 4800A

- Part 11 Enforcement Information
- *1. Identification Refer to Part 1-1.
- II. Enforcement Information
 - Past Regulatory Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.
 - 11-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

- of regulatory or enforcement action to take Times include any enforcement action contemplated of the process of development.
- tain information: List the sources used to act tain information for this form. Sources cited may include: sample analysis, reports, inspections, orficial records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

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APPENDIX

CAS Number	Châmical Neme	CAS Number	Chemical Name	CAS Number	Charties Name
1 :064-41-7	1mmania	14. 1317-38-0	Cuerie Oxide	27. 7778-60-6	Potensim Dienromate
2. 7440-36-0	Antimony _	15. 7750-06-7	Cuprie Sulfato	28. 1310-08-3	Potestum Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-36-1	Cuerous Oxide	29, 115-07-1	Progviene
4 7440-38-2	Artents	17. 74-65-1	Ethylene	30, 10888-01-0	Sadium Dichromate
5 1327-53-3	Amenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31, 1310-73-2	Sadium Hydroxide
6. 21109-95-6	Barium Sulfida	19. 7004-36-3	Hydragen Fluoride	J2. 7846-78-8	Stannes Chiorica
7 7726-96-6	8/amine	20. 1336-25-7	Lead Oxed	33. 7772- 60-6	Stannous Chigrian
8 106-96-0	Bu tadiene	21. 7438-07-6	Mercury	34. 7004-03-0	Sulfurie Acid
7440-43-8	Cadmium	22. 74-82-8	Meshane	36, 108-es-3	Toluene
7782-60-6	Chierine	23. 91-20-3	Napshalene	38, 1330-20-7	Xviene
12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-86-7	Zine Chloride
. 7440-47-3	Chromium	28. 7007-37-2	Nitre Acid	38. 7733-02-0	Zine Suifate
1. 7440-48-4	Cobalt	28. 7723-14-0	Phosphorus	1	

CAE Number	Chemical Name	CAS Number	Chamical Name	CAS Number	Chamical Name
	Acertaidelivde	47, 1303-33-0	Armnis Trimellida		
1. 7 5-07-0 2. 64-19-7	Acetic Acid	46, 542-62-1	Berlum Cvenide	92. 142-71-2	Cuerie Acetate
	Acetic Adivorida	40. 71-43-2	Batanan Cyanasa	93. 12002-03-6	Cupris Aceteersenite
3. 10 8-24-7 4. 7 5-86-5	Assens Granshydrin	90. 05-05-0	Corneis Asid	94, 7447-38-4	Cuarle Chloride
5, 50 6-06- 7	Acest Bromide	61. 100-47-0		95. 3351-23-4	Cuerie Nitrete
6. 75-36-6	Acetyl Chlorida	52. 50.00 -4	Boreaul Chierida	16. 0003-00-3	Cuerte Oxalete
7. 107-02-8	Agretain	53. 100-44-7	Securi Chierida	97, 7798-68-7	Cuerie Sulfete
A. 107-13-1	Acrylenistile	84. 7440-41-7	Barvillum	98, 10386-38-7	Cuerie Sulfess Ammoniated
9. 124-04-0	Adiaia Acid	86. 7787-47-6	Beryllium Chieride	99. 818-82-7	Cuerie Tertrete
10. 308-00-2	Aldrin	96, 7787-46-7	Bervillum Fluerida	100. 806-77-4	Cyanegen Chloride
11. 10043-01-3	Aluminum Sulfate	57. 12007-00-4	Berytlum Nivee	101.110-02-7	Cyclehexene
12. 107-18-6	Allyl Algebat	65. 123-68-4	Butyl Assum	102.94-76-7	2,4-0 Acid
13, 107-08-1	Allyi Chlerida	ED. 84-74-2	n-Buthi Photology	103. 94-11-1	2,4-0 Esters
14. 7004-41-7	Ammenie	G. 109-73-0	Buttismine	104. 80-28-3	DOT
15. 631-61-6	Ammenium Aestess	61, 197424	Butteria Acid	105. 339-41-6	Olazinan
16. 1883-63-4	Ammenium Beneets	62.543464	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	106. 1918-00-0	Disamba
17, 1000-33-7		69, 7769-49-6	Cadmium Branida	107. 1104-05-6	Olahlabanii
18, 7789-09-6	Ammenium Stearbensts Ammenium Stearenses	64. 1016B-64-2	Codesian Chierian	100.117-00-6	Clations
19, 1341-48-7		66. 777B-44-1	Culcium Arenate	100. 20321-23-0	Olshierebensene (ell isomers)
20. 10193-30-6	Ammenium Siffuerida	GE 82740-16-6	Culatum Artenity	110, 205-25-16-7 111, 2000-23-6	Olshiereprepane (all isomers)
21. 1111- 78-0	Ammonium Carbonnes	67. 78-26-7	Catalog Carbida	111.2000-00-0	Dishipropropone (all isomers
27. 121 28424	Antmonium Chierles	GD. 13755-10-0	Calabia Chronos	112.0000-10-0	Olehierepropone Dighterepropone Mixture
22. 7788-68-6	Ammenium Chromes	65. 889-01-0	Catalum Creation	***	
24. 3012-65-6	Ammonium Citata, Cibada	78. 2000+05-0	Calaban Coden Bernara	113.75-00-0	2-3-Oldhiereprepionic Acid
25. 13828-03-0	Ammentus Photograp	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Saltaness .	114.00-78-7	Clahlerves
28. 12125-01-6	Annesius Plantis	71, 77 78-84-8		116.60-67-1	Oleidrin
27. 1338-21-4	Ammonton Hudranido	77. 129.46.2	Calabam Hypochlarito	116, 100-00-7	Olathylemine
25. 6009-70-7	Anneales Coules		Copton	117, 134-49-8	Olmostytemine
29. 10019-19-0	Ammental Shelberte	73. 69-38-2	Corboyi	110.20104-64-6	Olaterobonsone (all isomers)
30. 7773-08-0	Ammanium Bullamen	74. 1000-05-2	Carboluran	119.01-25-6	Cinitrophenel
31. 12135-76-1	Ammenium Sulfido	76. 75-16-0	Carbon Dlauffido	120. 20321-14-0	Olnitrotalvano (all isomers)
32. 101 98-04-0	Anmenius Bullin	78. 00-33-6	Carbon Trevenherido	121.05-05-7	Claust
33. 14367-43-0	Ammenium Tereses	77. 67-74-0	Chierdane	122. 200-04-4	Claufeten
34. 1703-05-4	Ammanum Thiosyanas	78. 7789-69-6	Chierine	128. 320-04-1	Oluren
36. 7763-16-6	Ammenium Thiosyllow	78. 168-66-7	Chloroboroone	124. 271 78-67-0	Codocythononeouttonic Acid
M. 628-63-7	After Australia	80. 67-66-3	Chlereferm	128, 116-28-7	Endocytton (at isomers)
17. 6343-3	Action	81.7788848	Chierensifenie Aeld	136, 72-39-6	Endrin and Metabolites
2. 7647-18-0		82. 3821-66-2	Chierpyrifes	127. 100-00-0	Epishierehydrin
20. 7700-61-0	Antimony Pentableride	83, 1085-35-4	Chromis Assess	128.000-13-9	Ethion
10. 10035-01-0	Antimony Tribromide	84, 7738-84-6	Chremic Acid	120, 169-41-4	Ethyl Boncone
11. 7783-88-4	Antimony Trighteride	86 , 10101-63-8	Chromic Sulfeto	138, 167-16-3	Ethylenedlemine
12. 1309-04-4	Antimony Triffueride	86. 10048-05-6	Chremeus Chleride	131, 108-89-4	Estylene Dibromide
43. 1303-324	Antimony Trieside	87. 644-18-3	Calaitava Formata	132, 107-46-2	Ethylene Dighteride
44.1393-23-2	Artenie Dieuttide	68 , 14017-41-6	Cabaltana Bullamata	133, 69-69-4	EDTA
46. 7784-34-1	Artenia Fernando	30. 06-73-4	Courtestes	134, 1186-67-6	Partie Ammonium Citrate
44. 1327-43-3	Arrente Trichlorido	99. 1319-77-3	Cressi	135, 2544-67-4	Ferris Ammonium Oxalate
	Artenia Triestale	91,4170-30-3	Crosensidativedo	139, 7709-06-0	Ferrie Chierida

Nan	ne	L c EPA I.D.	County.
	 _زنهر	Mills-White Cake N.C. Doce 77197	Lists of
_	atio	on Contact Person	Date
	12c	Participants.	1.125/81
San	vey	Parete parts	
INS	TRUČ	TIONS: In the space provided, use the listed codes to C - Compliance, NC - Noncompliance, NA - Not	
1.	EPA	identification number, if applicable (262.12)	11. C. DOCOT76919
2.	Was	te Volume (261.5)	
	a.	*Small Generator (<1000 kg/Mo)	
	b.	*Large Generator (> 1000 kg/Mo)	
		(*Note: Special limits on 261.33(e) list)	
3.	was	efly describe the plant operations and the type of te generated. (Volume, form) 45 agllons of Ste Solvents Sevented on A weekly basis	
4.	When Sol	re is the waste currently being disposed? Waste	TREATMENT System
5.	Che	ck Manifest (262.20 - 262.23)	
	a.	identification (I.D. code, name, address, date)	<u> </u>
	b.	waste information (shipping description, hazard class, quantity and unit)	<u>yes</u>
	c.	emergency information (immediate response information, special handling instructions, phone no.)	
	d.	certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA*.	yes
6.	Che	ck Containers (262.30)	-
	a.	improper construction	
	b.	leaks or corrosion	····
	c.	heat generation from incompatible wastes	

- (ontinued	
7.	Labeling practices and marking (262.31 - 262.32)	
	a. DOT shipping description	
	b. Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.	
	Generator's Name and Address	
	Manifest Document Number	waste shipped in bu
8.	Placards for transport (262.33)	
9.	Check accumulation time of wastes: (262.34) $\sqrt{/\rho}$	7
	a. check records and dates	- -
	b. check containers	
10.	Recordkeeping practices:	
	a. manifests (262.40)	17 85
	b. test results (262.40)	- yes
	c. annual reports (262.41)	
	d. exception reports (262.42)	
11.	International shipments (262.50)	N/9
12.	Permit information:	
	a. Check all applicable permits held by the gene	
	NPDES Permit SPCC PlanState Permit	
		r
	RCRA StorerRCRA Treater	
	Other (Specify)	
	b. In Compliance Ves No Unknown with respe	Regulation Name/#
13.	Past regulatory actions: (Circle response)	
• • •	None	
		ARGE guestioned 7-8
	Yes If yes, summarize: NPDES disch	- 1000 10 1 15 m C

RCRA INSPECTION CHECK LIST

Inspection	Date of	Performed	rcle response)
None Yes Spec	Past Action	by EPA or State	Describe: A.R.C.D. A.P.L.E.S. Zischare Regainements
Remedial ac		on-going): (Circ	le response)

Press of his proper in the unshaped areas on. Ifill—in areas are spen difor error type, i.e., 12 on			-orm Approved QMB No.	158-80175
S.FPA	GENERAL INFORMA	I. SPA LD. NUMBER		
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r saw for knydaga	Reference No. 2	_\	If a preprinted label has t	seen provided,
HE PACILITY HANG		/////	stion corefulty; if any of i through it and enter the appropriate fill—in area to	correct data in
PACILITY	1 Jelista Es		the proprieted data is about	int (the area to
A- WYNTING VDDEER	ease place label in Y	HIS SPACE	shot should appearl, plans preser 199-in areas/ bet	o provide it in
			terms I, III, V, and VI I must be completed report	lemaner VI-B a
VI PACILITY LOCATION			I terms if no label has been the instructions for des	provided. Refu
		//////	tions and for the legal a which this data is collected.	uthorizations u
IL POLLUTANT CHARACTERISTICS				
HESTRUCTIONS: Complete Arthrough-J to: quantient, you must submit this form one the	e aupplemental form listed in the p	erenthesis following the qu	estion. Mark "X" in the bex in	the third colum
If the supplemental form is attached; If you is assisted from permit requirements; see Sect	namer "by" to easir consider, you	need not submit any of th	me forms. You may ensuer "he	" If your activit
SPECIFIC QUEFTIONS	MARK 'H'		evestions	MARK O
A. Is this facility a publishs around treatm		. Does or will this facility	folther existing or prepared	V - A
which results in a discharge to visions of (FORM 2A)	 X	equatio animal producti	enimal feeding operation or on feeliby which results in a o U.S.7 (FORM 22)	X
C. In this a facility which currently results in		. Is this a proposed facility	y lother than these described	T X
A or 8 show? (FORM 2C)		water of the U.S.? (FOR	IM 20) st at this feelilty industrial or	
E. Doos or will this facility trest, store, or hexardous wester? (FORM 3)	X X	municipal offluent being taining, within one qu	v the lowermost stratum con- erter mile of the well bore.	x
C. De you or will you injust at the heality as			drinking water? (PORM 4) at at this facility fluids for spe-	29 20
water or other fluids which are brought to in connection with conventional all or nature duction, inject fluids used for enhanced of	iral gas pro-	elei processes such as a process, solution mining	nining of maffur by the Fresch of minorals, in situ combus-	
oil or netural gas, or inject fluids for store	ge of liquid X	(FORM 4)	covery of goothermal energy?	X
I. Is this facility a proposed stationary sour	s which a	NOT one of the 28 inc	ed stationary source which is fustrial estagaries listed in the	
structions and which will potentially and per year of any air pollutant regulated Class Air Act and may affect or by les	under the	instructions and which a per year of any air polls. Air Ast and may affect	tent regulated under the Clean	x
ettalment area? (FORM S) III. NAME OF FACILITY		erest (PORM S)		8 4
	C.O.R.P.O.R.A.T.I.O.N			· •
IV. FACILITY CONTACT			M.A.K. P.L.A.K.	- A
A SAME LAN	PLE finel, Brot, & Wist /		, PHONE (are eade à na.)	
	GR WATER &	WASTE91	9 3 7 9 6 5 7 9	
V. FACILITY MAILING ADDRESS	IT on the sex			
	STREET			
TAL H		CSTATE & ZIP CO	≅ 1	
4 GREENSBORO		NC 2 7 4 0	13	
VL FACILITY LOCATION				
A STREET, ROUTE NO. OF	STREET		***************************************	
10110 E COUNTY NA				
GUILFORD				
& CITY OR TO	DWH	D.STATE E. ZIP CO		
8 GREENSBORO		N C 2 7 4 C		

CONTINUED FROM THE FRONT				
VIL SIC CODES (4-digit, in order of prienty)				
A. PIRST			8. SECONO	
7 2 2 1 1 specify) Weave	15	(specify)		
Rroadwoven fabric, cotton	in in the state of			
C. THIRD		(anadaida)	D. POURTH	
	7	(specify)		
WIL GERATOR INFORMATION	19.116	10		
A. NAME				B. Is the name lists
	1111		11111	Isam VIII-A also
SCONE MILLS CORPORATION	N		<u> </u>	₩ YES W
15 16				10 66
C. STATUS OF OPENATOR (Enter the appropriate latter into the a F = FEDERAL M = FUBLIC (other than federal or state)		r", specify.)	D. PHONE	(ares code à no.)
S-STATE 0 = OTHER (specify)	(specify)		A 9 1 9	3 7 9 6 2 2 0
P = PRIVATE	_1		10 10 10 1	9 - 80
	1111			
1201 MAPLE STREET				
P. CITY OR YOWN	G.STA	TE H. ZIP CODE	IX. INDIAN LAND	
			Is the facility locate	
GREENSBORO	N	╼┺╈═┈┸═╌┸	THE YES	™ NO
**************************************	40 41 4	8 49 - 91		
X. EXISTING ERO/IRONMENTAL PERMITS A. INFEC. (Discharges to Surface Mater) D. FOO (Air Emis	Siene fram Process	1 Concession		
	siane from Proposes	300000)		
9 N E N C 0.0.0.08 7.6. 9 P				
# 19 19 19 19 19 19 19 19 19 19 19 19 19	THER (speelfy)	B1		
	1 1 1 1 1	/2000	47)	
9 U				
	THER (specify)			
9 R		(spec	ומו	
14 14 17 14 19 19 19 19		10		
XL MAP				
Attach to this application a topographic map of the area extendir the outline of the facility, the location of each of its existing an	ng 100 at 100st one Id proposed intel	mile devond pro	perty boundaries. T structures seek al	The map must show its hassarious
treatment, storage, or disposal facilities, and each well where it	injects fluids und	terground, Includ	de all springs, river	s and other surface
weter bodies in the map area. See instructions for precise requirem	nents.			
XII. NATURE OF SUBINESS (provide a brief description)				
Integrated textile plant; fiber through fi	lnishing of	broad woven	fabric,	
all cotton and some cotton and synthetic b	lends.		•	
•				
•				
XIII. CERTIFICATION has instrument		<u> </u>		
. I carefly under penalty of law that I have personally examined a - attachments and that, based our my inquiry of those persons is				
application, I believe that the information is true, accurate and	complete. I am i	were that there	are significent pen	eities for submitting
false information, including the possibility of fine and imprisonm	ent.			
A HAME & OFFICIAL TITLE (mpg or print) Happer J. Elam, Til	ATURE		1	BATE SIGNED
Vice President & General Counsel	スんしし ろ	lam T	\overline{a}	11/17/80
	7.7/.	cam.		
COMMENTS FOR OFFICIAL USE ONLY				
C				'
			<u> </u>	*10



anald H. Levine, M.D., M.P.H. STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES NORTH CENTRAL REGIONAL OFFICE 720 Coliseum Drive-Plaza West Winston-Salem, N.C. 27106 (919) 761-2390

September 23, 1982

MEMORANDUM

TO:

O.W. Strickland, Head

Solid and Hazardous Waste Management

Branch

FROM:

Steve Phibbs, District Sanitarian

North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mil·ls - White Oak Plant

2420 Fairview Street Greensboro, N.C. 27405 E.P.A. ID#NCD000776914

GOVERNOR



SP:kd



1) Facility Information

Cone Mills - White Oak Plant 2420 Fairview Street Greensboro, N.C. 27405

2) Facility Contact Tom Alspaugh

3) Survey Participants

Tom Alspaugh, Cone Mills Arthur Toompas, Cone Mills Steve Phibbs, District Sanitarian, DHS

- 4) Date of Inspection September 21, 1982
- 5) Applicable Regulations
 40 CFR Part 262 and Part 265
- 6) Scope of Survey
 No change

7) Facility Description

No change 4) Addendum - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Doficiencies
None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT FACILITIES

Yan	ne Mills Corp-White Clake Floret	NG	0000	County 7641	2 Levelles
Loc 13/	Fairiew St. Gerendon N.C. 2790	Signar	ture of	Facility	Contact
Da c	of all one	Signat		inspecto	or(s)
TN	TRUCTIONS: Place a check to indicate Compliance	e (C),	NonComp	liance	NC) or Not
	Applicable (NA). Cite specific vio	C	NC NC	NA	Violation(s
١.	GENERAL	<u>~</u>		_	
2.	GENERAL FACILITY STANDARDS	_			
3.	PREPAREDNESS AND PREVENTION	~			
4.	CONTINGENCY PLAN AND EMERGENCY PROCEDURES	_			
5.	MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<u>~</u>			
5.	GROUND-WATER MONITORING			<u>~</u>	
7.	CLOSURE AND POST-CLOSURE	~			
8.	FINANCIAL REQUIREMENTS			<u>~</u>	
9.	USE AND MANAGEMENT OF CONTAINERS				
٥.	TANKS			<u> </u>	
1.	SURFACE IMPOUNDMENTS			~	
2.	WASTE PILES			_	-
3.	LAND TREATMENT			_	
4.	LANDFILLS -			~	·
5.	INCINERATORS			<u>ک</u>	
6.	THERMAL TREATMENT				·
7.	CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT			<u>~</u>	
8.	UNDERGROUND INJECTION			<u>_</u>	
					
	Menerator, TSD Hauting		YES		<u>NO</u>

DHS Form 3010 (7-81) SOLID & HAZARDOUS WASTE

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT L. IDENTIFICATION O1 STATE 02 SITE NUMBER NC D000776914								
II. SITE NAME AND LOCATION				==				
01 SITE NAME (Legal, common, or descriptive name of add)	10	2 STREE	T. MOUTE NO., OR	SPECIFIC LOCATION	DENTIFIER			
Cone Mill Corp./White Oak Plant		2420	Fairvies	Street		07COUNTY OS CONS		
Greensboro	ľ	NC	27405	Guilford		CODE OST		
09 COORDINATES LATITUDE LONG 36 06 15 079 46	15							
ODMECTIONS TO SITE /Storne from record packs rest! In Greensboro on I85 take US 29 North. Exit right on 16th Street. Turn left on 16th Street. Cone Mills White Oak Plant is located on left at intersection of 16th and Fairview Streets.								
III. RESPONSIBLE PARTIES								
Cone Mills Corp.	Jo	2 STREET	(Brances, mally, 4	personal)				
OS CITY		4 STATE	06 ZIP CODE	OS TELEPHONE	MANGER			
				()				
07 OPERATOR (If anown and different from owner)	O	e STREET	(Brahass, maling, re					
09 CITY	1	O STATE	11 2P COOE	12 TELEPHONE	NUMBER			
13 TYPE OF OWNERSHIP (Cheek and) J.A. PRIVATE B. FEDERAL:	A. PRIVATE B. FEDERAL: C. STATE D.COUNTY E. MUNICIPAL							
14 OWNER/OPERATOR NOTIFICATION ON PILE (close of the asset) A. RCRA 3001 DATE RECEIVED: 17 / 17 80 B. UNCONTROLLED WASTE SITE (CSROLA 165 of DATE RECEIVED: MONTH DAY YEAR								
IV. CHARACTERIZATION OF POTENTIAL HAZARD								
V 2 3 3 11 , 84 □ A.	CAL HEALTH OFFICE ACTORNAME(S):	RCR	F. OTHER:	C. STATE (CONTRACTOR		
02 SITE STATUS/Chook and	03 YEARS OF OPERAT	980	A 5454	VEAR	□ UNIGIOWI	١		
Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination on site (in the plant and creek areas) and offsite via conveyance down the creek. OS DESCRIPTION OF FOTBURE MAZAGE TO SAMFORMANT AND OR POPULATION Possibly suface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.								
V. PRIORITY ASSESSMENT								
O1 PRIORITY FOR INSPECTION (Cheek one, if July or medium is cheeked, one A. HIGH A	replate Pays 2 - Meass Informa C. LOW Information the av		D. NON	igranus Constituti and hi E Nor estiga mendes, compl	into auritat dingo	dian iranj		
VL INFORMATION AVAILABLE FROM								
01 CONTACT	02 OF Marris Order Con				-	00 TELEPHONE HUMBER		
T.A. Alspaugh	Cone Mills					(919 379-6579		
64 PERSON RESPONDED E FOR ASSESSMENT Lee Crosty	NC DHS	Sol	MEANON & Haz ta Mot. B	07 TBLEPHON (919) 73	-	1 /8 /85 MONTH DAY YEAR		

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NC D000776914

PART 3 - DESCRIPTION OF	HAZARDOUS CONDITIONS AND INCID	ENTS	0000//6914
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:	POTENTIAL	C ALLEGED
Burial and/or land application of	dye wastes and/or various	solvents.	
03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:	POTENTIAL	ALLEGED
Discharge of various solvents docu	mented. Check for dye was	stes also.	
01 T C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) S POTENTIAL	C ALLEGED
Not suspected at this time.			
01 © D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) C POTENTIAL	□ ALLEGED
Not suspected at this time.			
01 SE DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) SOPOTENTIAL	C ALLEGED
Effluent discharge and land applic	ation or burial.		
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Aurea)	02 () OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) DOTENTIAL	☐ ALLEGED
In areas of land application.			
01-KG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 COSSERVED (DATE:) DEOTRITIAL	C ALLEGED
Through contamination of groundwat suspected at this time.	er or surface water suppl	ies although n	one are
01 H WORKER EXPOSUREMUNY 03 WORKERS POTENTIALLY APPECTED:	02 C OBSERVED (DATE:) EPOTENTIAL	□ ALLEGED
In any on-site contaminated areas.			
03 POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 C COSERVED (DATE:	POTENTIAL	C ALLEGED
Off-site movement of surface or gr	roundwaters		



STATE OF NORTH CAROLINA

JAMES B. HUNT, JR.

BARAH T. MORROW, M.D., M.P.H.

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

P. O. Box 2091

Raleigh 27602

NCD 000 776 9/4

Ronald H. Levine, M.D. Acting Director

August 18, 1981

Mr. T. A. Alspaugh Cone Mills Corporation White Oak Plant 2420 Fairview Street Greensboro, NC 27405

RE: Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this departments understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist

Solid & Hazardous Waste Management Branch

Environmental Health Section

WP:1c

cc: Mr. Joe Deakins

Mr. Steve Phibbs

Mr. Jim Moore

Mr. Rick Doby

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

August 5, 1981

Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602



Re: PCB Transformer Blowup Cone Mills Corporation Salisbury Plant Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gooves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top l" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.



Mr. William Pai Page 2 August 5, 1981

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh. NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

> Sincerely, Sincerely,

T. A. Alspaugh/ Manager, Water & Air Resources

crn

Mr. Lee Clyburn, Plant Engineer cc:

Mr. Graham Knight Mr. Arthur Toompas

Mr. Rick Doby, State of NC Engineer

F -in areas are spaced for eithe type, i.e. 12 cm moter	3/incn:	Form Approved 19 No 158-58000							
1 1 CDA HAZARDOI	IS WASTE PERMIT APPLICATION	I. EPA LD. NUMBER							
	Consolidated Permits Program Sen is required under Section 3008 of RCRA.)	FNCD000776914							
FOR OFFICIAL USE ONLY									
Reference No. 7									
H FIRST OF PRINCED ASSESSMENT OF THE PRINCE									
II. FIRST OR REVISED APPLICATION Place on "X" in the appropriate box in A or 8 below in	each age has cally to indicate whether this is the firm	configuration was any material for your desiles.							
revised application. If this is your first application and EPA (.D. Number in Item I above.	you already know your fealitry's EPA I.D. Number, o	r if this is a revised application, enter your facility							
A. FIRST APPLICATION (place on "X" below and [7] 1. EXISTING FACILITY (See instructions for Complete item belo	2.NEW FACILITY (Complete item below.) FOR NEW FACILITY								
8 0 0 8 1 9 OPERATION SEGAN CONTROL TO THE PARTY OF THE P	VR. US. PAY (7, ma., & dey) OPE TION BEGAN OR IS EXPECTED TO BEG								
B. REVISED APPLICATION (place on "X" below 1. PACILITY HAS INTERIM STATUS	and complete Item I above)	1. PACILITY HAS A RCRA PERMIT							
III. PROCESSES - CODES AND DESIGN CAPA	ACITIES								
A. PROCESS CODE - Error the code from the list of p									
entering codes. It more lines are needed, enter the o describe the process (including its design capacity) is	ode(s) in the space provided. If a process will be used the space provided on the form (feem III-C),	s while is not included in the list of codes below, the							
8. PROCESS DESIGN CAPACITY — For each code on 1. AMOUNT — Enter the amount.									
UNIT OF MEASURE — For each amount entere measure used. Only the units of measure that an		measure codes below that describes the unit of							
	RIATE UNITS OF E FOR PROCESS	PRO- APPROPRIATE UNITS OF CESS MEASURE FOR PROCESS							
PROCESS CODE DESIG	M CAPACITY PROCESS	CODE DESIGN CAPACITY							
CONTAINER (borrel, drum, etc.) 801 GALLONS TANK 302 GALLONS	Trusters: OR LITERS TANK OR LITERS	TOI GALLONS PER DAY OR							
WASTE PILE SAS CUBIC YA CUBIC ME	res or surface impounding	IT TOR GALLONS PER DAY OR LITERS PER DAY							
Otrocat:	:	METRIC TONS PER HOUR; GALLONS PER HOUR OR							
INJECTION WELL D70 GALLONS LANDFILL D00 ACRE-FEE	OR LITERS T (the returns that GTHER (Use for physical, returned or belogged truck of feet) OR proposes not equiving in	chemical TO4 GALLONS PERLOAY OR							
MESTARE	OR LITERS T (the returns that T one are to a thermal or biological tresh of feet) OR METER	hands							
OCEAN DISPOSAL DES GÁLLONS LITERS PE	PER BAY OR the space provided; [tem]								
SURFACE IMPOUNDMENT DES GALLONS UNIT OF	OR LITERS UNIT OF	UNIT O							
UNIT OF MEASURE CODE	UNIT OF MEASURE CODE	UNIT OF MEASURE CODE							
GALLONS	LITERS PER BAY	ACRO-FEETA							
CUBIC YARDS	METRIC TONS PER HOUR W CALLONS PER HOUR	ACRES							
	LITERS FEB. HOUR H mundate X-1 and X-2 belowle A facility has too a	torage tanks, one tank can hold 200 gallors and the							
other can hold 400 gallens. The facility also has an inci	neverter that can burn up to 20 gallons per hous.								
C DUP 🗫 🕕		<u> </u>							
B. PROCESS CAPAC	POR LANGE	PORTION CAPACITY							
M CODE Z (from list above)	SURE USE STORM SURE	1. AMOUNT OF MEA- USE							
	Tenter ONLY 25 oberes	(enter code)							
X-1 S 0 2 600	G 5								
X-2 T 0 3 20	E 6								
1 5 0 1 1000	G 7 7								
2 8 0 2 1000	G 8								
3									
, T									
4	10	. 17 14 19 .							

Deun,		
PROCESSES continued,		
PROCESSES CONTINUES,	CRIBING OTHER PROCESSES (code "Tu-). FOR EAC	PROCESS ENTERED HERL

IV. DESCRIPTION OF HAZARDOUS WASTES

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hexardous wests you will handle. If you handle hexardous wasts which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristies and/or the toxic contaminants of those heserdous we
- E. SETIMATED ANNUAL CLIANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basic. For each characteristic or texts contaminent entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or conteminant.
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate

ENGLISH UNIT OF MEASURE C		METRIC UNIT OF MEASURE C	
POUNDS	. 🗭	KILOGRAMS	ĸ
TORS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the wa

D. PROCESSES

1. PROCESS CODES:

Process colors:
For each listed heserdous waste: For each listed heserdous waste entered in column A select the cede/a/ from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
For non-listed heserdous wastes: For each characteristic or toxic contaminant entered in column A, select the cede/a/ from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed heserdous wastes that possess

that characteristic or toxic contaminant.

Note: Four spaces are provided for entering precess codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

PROCESS DESCRIPTION: If a code is not floted for a process that will be used, describe the process in the cases provided on the form.

IOTE: HAZARDOUS WASTES DESCRISED BY MORE THAN ONE SPA HAZARDOUS WASTE NUMBER — Hearning waster that can be described by nore than one EPA Hearning Waste Number shall be described on the form as follows:

1. Select one of the EPA Hearning Waste Numbers and enter it in column A, On the same line complete columns 8,C, and D by estimating the total annual quantity of the waste and describe all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line-of- the other EPA Hearnings Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and mall the other entries on that line.

3. Report stop 2 for each other EPA Hearnings Waste Number that can be used to describe the hearnings waste.

EXAMPLE FOR COMPLETING ITEM IV Above in the number X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tenning and finishing operation. In addition, the facility will treat and dispose of three non—listed wester. Two wester only and there will be an estimated 200 pounds per year of each waste. The other waste is correctly and ignitiable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a leadfill.

		A.	S P	7		9.	e, user												D. PROCESSES
Z O	Z NO	AZ AS	76	£ 200	B. EFTIMATED ANNUAL QUANTITY OF WASTE	22.00			1. PROCESS COOKS							904		3. PROCESS DESCRIPTION (8 a code is not entered in $D(1)$)	
X-1	K	0	5	4	900		,		7	0	3	1	D	8	0		7	1 1	
X-2	D	0	0	2	400		P		T	(3	1/1	ס	8	0		1	1-1-	
X-3	D	0	0	1	100		P		T	0	3	1	ס	8	0		7	1 1	
X-4	D	Yo	0	2						1	1	Ī	7	Ŧ		1	7	1 1	included with above

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	DES	iC)		7	0 7 7 6 9 1 4 3 1 ON OF HAZARDOUS WASTI		CO		Т	Tž.	_			ַע	O P			13 14 16 18 . 18
	\Box	A. I	IPA ARI		B. ESTIMATED ANNUAL	6	UA M		1									D. PROCESSES
20	10	5	60d	20	QUANTITY OF WASTE								100	LAST)			•	2. PROCESS DESCRIPTION (If a code is not extend in $D(1)$)
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-		-	130			_		_						-				CONTINUE ON REVERS

IV. DESCRIPTION OF HAZARDOUS WAS LES (cor E. USE THIS SPACE TO LIST ADDITIONAL PROG	ntinued)	OM ITEM D(I) ON PAG	E 3.	
			,	
•				
FA I.D. NO. (enter from page 1) N C D 0 0 0 7 7 6 9 1 4 6 V. FACILITY DRAWING All existing facilities must include in the space provided on p	nes S a scale drawin	of the facility feer jestner	ions for more detail).	
VI. PHOTOGRAPHS	age of table drawing	or the reporty that modest	out for more of Eng.	
All existing facilities must include photographs (serie	or ground-level	that clearly delineate a	I existing structures	: existing storage
treatment and disposal areas; and sites of future store	ige, trestment or (disposal areas (ase instru	ctions for more deta	il).
VII. FACILITY GEOGRAPHIC LOCATION				11
LATITUDE (degrees, minutes, & essends)		LONGIT	UDE (degrees, minutes	, & seconds)
36,06,15			7946	1 5
VIII. FACILITY OWNER				
A. If the facility owner is also the facility operator as lies skip to Section IX below.		·		n the box to the left and
8. If the facility owner is not the facility operator as ile	ted in Section VIII (on Form 1, complete the 10	Hawing Hams:	
1. NAME OF FACILI	TY'S LEGAL OWN	S#	2. 9	MONE NO. (area code à 1
Ė			1	
414	•	A 4000 40 0000	8.87.	
3. STREET OR P.O. DOR £_	10	4. CITY OR TOWN	10.51.	4. ZIP CODE
F	G			
IX. OWNER CERTIFICAT				
i certify under penelty of less that I have personally a documents, and that based on my inquiry of those in submitted information is true, accurate, and complete	dividuals immedia	tely responsible for obta	ining the information	on, I believe that the
including the possibility of fine and imprisonment.				
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Reference No. 8

Reference No. 8

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405.

February 28, 1983



Re: Hazardous Waste Management Permit Application Cone Mills Corporation White Oak Plant Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone conversation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

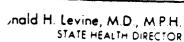
T. A. Alspeugh

Manager, Water & Air Resources

1t

cc: Mr. Garland Coffer Mr. Arthur J. Toompas







DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

1 2

Tom A. Alspaugh Cone Mills White Oak Plant 4100 Pleasant Garden Road Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.



Tom A. Alspaugh Page 2 July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch Division of Health Services P. O. Box 2091 Raleigh, NC 27602

Very truly yours,

Solid & Hazardous Waste Managment Branch

Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



North Carolina Department of Human Resources Division of Health Services P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor Phillip J. Kirk, Jr., Secretary Ronald H. Levine, M.D., M.P.H. State Health Director 919/733-3446

Mr. T.A. Alspaugh Cone Mills Corporation 2420 Fairview St. Greensboro, NC 27405 Date: April 29, 1985

Deleta Ac

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you, we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

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Add AS	DETELE AS
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<u> </u>	small generator
We are advising the EPA of the change is any further change in your operation Your EPA ID NO. is is notX	in your status. Please notify us if there ons which would again affect your status. being cancelled.

Cordially,

Keith Lawson, Environmental Chemist Solid & Hazardous Waste Management Branch Environmental Health Section

cc: Doug McCurry
EPA Region IV
Emil Breckling

Map of City of Greensboro, North Carolina. 1985.

(Large map. On file at NUS Corporation.)





LEVEL

NOTEBOOK NO. 311

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 TDO No., Site Name, Site Location, Project Menager
- 2. All entries are made using ink.
- 3. Provide statement referencing Equipment Location Log.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
- 5. Sign and date each page, Project Manager is to review and sign off on each logbdok daily.
- A single line is drawn through error. Each correction is dated/initialed.
- 7. Report weather conditions. Provide general site description and remarks.
- 8. Document all changes from project planning documents.
- 9. Provide a site sketch with sample locations.
- 10. Document all calibration and preoperational checks of equipment.
- 11. Provide reference to Sampling Field Sheets for detailed sampling information.
- 12. Maintain photo log by completing the stamped information at the end of the logbook.
- If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

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Temporary data created in the current session

Reference No. 14

SOIL SURVEY OF

Guilford County, North Carolina





United States Department of Agriculture Soil Conservation Service

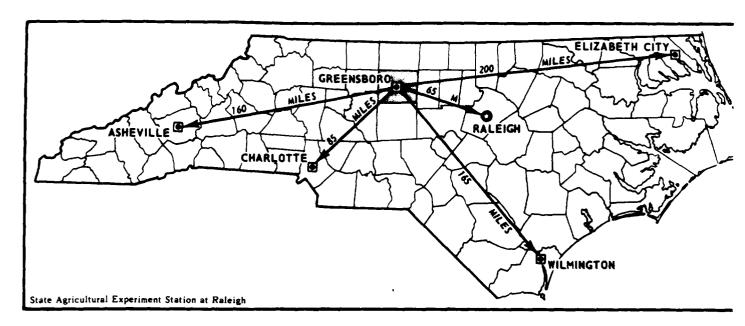
In cooperation with

Board of Commissioners, Guilford County, North Carolina, and North Carolina Agricultural Experiment Station

Contents

	Page		Pag
Index to soil mapping units		Recreation	3
Summary of tables		Wildlife habitat	3
Foreword	vii	Soil properties	3.
Introduction	1	Engineering properties	3
General nature of the county	1	Physical and chemical properties	3
Climate	1	Soil and water features	3
History	2	Soil test data	30
Cultural facilities	2	Classification of the soils	3
Industry and transportation	2	Soil series and morphology	3
Water supply	3	Appling series	3
Land use	ર	Cecil series	3
How this survey was made	3	Chewacla series	3
Soil map for general planning	4	Congaree series	38
1. Cecil-Madison association	4	Coronaca series	38
2. Madison-Cecil association	- T	Enon series	38
3. Enon-Mecklenburg association	E	Helena series	38
4. Wilkes-Enon association	5	Iredell series	39
	5 6	Madison series	39
5. Coronaca-Mecklenburg association	0	Mecklenburg series	39
6. Appling-Vance-Helena association	6	Sedgefield series	4(
7. Chewacla-Wehadkee-Congaree association	6	Vance series	4(
Soil maps for detailed planning	7	Wehadkee series	
Soil descriptions and potentials	7	Wilkes series	4
Planning the use and management of the soils	25	Classification	41
Crops and pasture	25	Formation of the soils	
Yields per acre	26	Climate	42
Capability classification	27	Plant and animal life	42
Woodland management and productivity	27	Relief	43
Engineering	28	Time	
Building site development	29	Parent materials	43
Sanitary facilities	29	Literature cited	
Construction materials	30	Glossary	
Water management	31	Tables beginning	49

Issued December 1977



Location of Guilford County in North Carolina.

SOIL SURVEY OF GUILFORD COUNTY, NORTH CAROLINA

By Ronald B. Stephens

Soils surveyed by E. H. Karnowski, R. B. Stephens, Marcus R. Bostian, R. L. Howard, Roger J. Leab, and Michael L. Sherrill,

Soil Conservation Service

United States Department of Agriculture, Soil Conservation Service, in cooperation with Board of Commissioners, Guilford County, North Carolina, and North Carolina Agricultural Experiment Station

Introduction

GUILFORD COUNTY is an agricultural, industrial, and urbanized county in north-central North Carolina (See map on facing page). It is bounded on the east by Alamance County, on the north by Rockingham County, on the west by Forsyth County, and on the south by Randolph County. The area of Guilford County is 415,940 acres. In 1970 the population was 288,590. The City of Greensboro is the county seat and is at the geographic center of the county.

Guilford County is in the Piedmont physiographic province. The county is generally rolling with moderately steep slopes along the drainageways.

Guilford County is rapidly growing into an industrial and urban county. Well diversified industry, government at all levels, educational institutions, wholesale and retail outlets, and transportation all contribute substantially to the economy of the county.

The northern part of the county is still primarily agricultural. Tobacco provides about 80 percent of the gross farm income from the major crops. Corn, hay, wheat, soybeans, oats, sweet potatoes, Irish potatoes, lespedeza seed, and cotton account for most of the remaining farm income. Beef and dairy livestock and poultry are also raised.

General Nature of the County

This section gives general facts about Guilford County. It briefly discusses climate, history, cultural facilities, industry and transportation, water supply, and land use.

Climate

Guilford County is hot and generally humid in summer because of its moist maritime air. Winter is moderately cold but short because the mountains to the west protect the county against many cold waves. Precipitation is quite evenly distributed throughout the year and is adequate for all crops.

Table 1 gives data on temperature and precipitation for the survey area, as recorded at Greensboro for the period 1951 to 1974. Table 2 shows probable dates of the first freeze in fall and the last freeze in spring. Table 3 provides data on the length of the growing season.

In winter the average temperature is 40 degrees F, and the average daily low is 29 degrees. The lowest temperature on record, -1 degree, occurred at Greensboro on January 16, 1972. In summer the average temperature is 76 degrees, and the average daily high is 86 degrees. The highest temperature, 102 degrees, was recorded on June 27, 1954.

Growing degree days, shown in table 1, are equivalent to "heat units." Beginning in spring, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (50 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

Of the total annual precipitation, 22 inches, or 52 percent, usually fails during the period April through September, which includes the growing season for most crops. Two years in 10, the April-September rainfall is less than 19 inches. The heaviest 1-day rainfall during the period of record was 6.24 inches at Greensboro on October 15, 1954. Thunderstorms number about 47 each year, 29 of which occur in summer.

Average seasonal snowfall is 11 inches. The greatest snow depth at any one time during the period of record was 15 inches. On the average, 4 days have at least 1 inch of snow on the ground, but the number of days varies greatly from year to year.

The average relative humidity in midafternoon is about 55 percent. Humidity is higher at night in all seasons, and the average at dawn is about 85 percent. The percentage of possible sunshine is 64 percent in summer and 54 percent in winter. Prevailing winds are southwesterly. Average windspeed is highest, 9 miles per hour, in March.

In winter every few years heavy snow covers the ground for a few days to a week. Every few years in late summer or autumn, a tropical storm moving inland from

2 SOIL SURVEY

the Atlantic Ocean causes extremely heavy rain for 1 to 3 days.

History

From Bicentennial List of Important Events and Movements in Guilford County.

Settlement of what is now Guilford County was begun by German Lutherans in the eastern part of the county in 1744. Quakers from Pennsylvania settled the western and southern parts of the county in 1750. Scotch-Irish Presbyterians purchased land between the Lutherans and Quakers and began settling in this area in 1753.

Guilford County as it now stands was created from lands in the remote parts of Rowan and Orange Counties by an act of Governor Tryon on April 1, 1771. It was named for Lord Francis North, first Earl of Guilford.

The county's most famous historical event occurred during the Revolutionary War in 1781 when General Nathanael Greene's forces fought British forces in the Battle of Guilford Courthouse. General Greene lost the battle, but the severe losses suffered by the British in this action influenced General Cornwallis' surrender at Yorktown a few months later.

The first steam powered cotton mill in North Carolina started operation in 1833, and the first train rolled into the county seat at Greensboro in 1856. A rail connection was completed to Danville, Virginia, in 1864.

The founders of the county considered education to be of prime importance. The Quakers opened New Garden Friends Boarding School in 1837. This became Guilford College in 1888. Greensboro College, High Point College, and Bennett College were built by Methodists who moved into the area. Charters were granted for two state supported secondary schools in 1891. These schools are now the University of North Carolina at Greensboro and Agricultural and Technical State University.

From the agricultural county established by the early settlers, Guilford County has grown into a giant in industry, commerce, transportation, and education.

Cultural Facilities

Culture was a part of the heritage of the early settlers of Guilford County. From the very beginning the pioneers exerted tremendous efforts in building churches and schools and the cultural facilities that go with these institutions.

The two universities and four colleges in Guilford County are Agricultural and Technical State University, University of North Carolina at Greensboro, High Point College, Greensboro College, Guilford College, and Bennett College. All have art, drama, and music departments. Oak Ridge Military Institute and Guilford Technical Institute are also in Guilford County.

At the University of North Carolina, the Weatherspoon Art Gallery has a permanent collection of modern art. The Theatre of University of North Carolina at Greensboro and the Pixie Playhouse present several programs a year. Also, there are laboratory, experimental, and television productions open to the public. Other programs are exhibits are displayed periodically at most of the collegistand universities.

The United Arts Council was organized in 1959 develop a well balanced cultural program in Guilfor County. The Arts Center has courses in many arts at crafts.

Other organizations interested in the arts are Gree sboro Artist League, Chamber of Commerce, Greensbor Chamber Music Society, Greensboro Oratorio Societ Greensboro Symphony, Eastern Music Festival, Greensboro Civic Ballet, the Lyric Theatre, the Little Theatr and Greensboro Writers.

The story of the founding and development of Guilfor County is told at the Greensboro Historical Museum more than one hundred exhibits. Also of historical in terest are the restored Quaker Room at Guilford Colleg Guilford Courthouse National Military Park, and the historical museum at High Point.

Guilford County is part of the six-county North Centr. Piedmont Resource Conservation and Development Project, which includes 11 committees. The committee designed to encourage community participation, includ representatives from all phases of the local citizenry.

Guilford County has five country clubs, four publishimming pools, and 15 neighborhood associations that operate pools for their members.

Municipal recreation facilities include 2,123 develope acres of parks. Hagan Stone park, which was develope by the Greensboro City Recreation Department, is 1 miles south of Greensboro and covers more than 40 acres. City Lake Park in High Point covers 1,500 acres Sixteen community centers are also operated by the City of Greensboro and the City of High Point.

The spectator can watch professional hockey, colleg basketball, wrestling, and many other activities at the Greensboro Auditorium-Coliseum. One of the major at tractions in Greensboro is the Greater Greensboro Open Golf Tournament.

There are two public libraries, a natural science muse um, two wildlife clubs, more than 200 civic clubs, 34 Extension Homemakers Clubs, 33 4-H Clubs, 97 elementar, and secondary schools, and 355 churches in Guilfor County.

Industry and Transportation

Guilford County is the leading manufacturing county in North Carolina, both in number of manufacturing employees and number of manufacturing plants. The county has approximately 700 manufacturing plants. The plant employ 58,900 workers.

Guilford County has been one of the leaders in North Carolina in manufacturing gains during the last 5 years Total manufacturing employment in the county increased by 12,665 workers between May 1965 and May 1970.

Greensboro has 35,985 workers in manufacturing enterprises. The 5-year increase was more than 11,000. With 13,900 workers, textile plants are the largest single source of employment. Other major types of industry, in order of total employment, are machinery, apparel, tobacco, food, newspaper printing and publishing, and metal working. Machinery manufacturing has had the greatest growth in employment, both in total number and in percentage of increase. In this field, employment in 1970 was 6,960, an increase of 259 percent since 1965.

High Point has 22,900 manufacturing workers. The 5-year increase was 1,600. Furniture manufacturing is the largest industry, with 8,100 employees, closely followed by textiles, with 7,000 employees. Other major types of industry are apparel, printing and publishing, and transportation equipment. Many of the nation's leading furniture and hosiery manufacturers have their headquarters in High Point.

Guilford County is also a major transportation center, with nearly 5,000 persons employed in various transportation enterprises. Rail service is provided by several lines. The airport serving both Greensboro and High Point has scheduled passenger and freight service. More than 100 trucking and warehousing firms have installations in the county and employ more than 3,000 workers.

Water Supply

Guilford County has an abundant supply of water from both surface streams and ground water (3).

There are three types of wells in Guilford County: dug, bored, and drilled.

Dug wells range from a few feet to nearly 100 feet in depth. The inside diameter usually is 24 to 30 inches. Dug wells have the advantage of larger storage capacity than other types, but digging below the water table and through bedrock is difficult. Contamination is another problem associated with the shallower dug wells.

Bored wells are very similar to dug wells, but the earth is removed by a large machine operated auger. Bored wells usually range from 30 to 40 feet in depth and from 18 to 24 inches in diameter. Because wells can easily be bored for a considerable depth below the water table, this type of well is not so apt to go dry during periods of drought. Bored wells, however, cannot be used where the water table is below the zone of completely decayed and disintegrated rock.

Drilled wells are safer and more reliable than dug and bored wells. Because they are tightly cased and water is obtained from crevices in the bedrock, the danger of contamination is much less. Because the well generally extends far below the fluctuating water table, drilled wells rarely go dry.

A drilled well, 3 inches or more in diameter, gives the greatest yield in the greenstone schist. Greenstone schist has an average yield of 28 gallons per minute and 0.17 gallon per minute per foot of well. Wells in sheared granite rank second, with an average yield of 14 gallons

per foot of well. Next in order of greatest average yield are gneiss serioite schist, porphyritic granite, and diorite.

Topographic location is important when locating a well. The highest yields are from wells in valleys, the average being 28 gallons per minute from a drilled well 3 inches or more in diameter. The next greatest average yield is from wells in draws; they yield 27 gallons per minute. Next in order are flats, slopes, and hills.

Yield per minute generally increases with depth, but yield per foot of well depth generally decreases as depth increases.

Cities and industries in Guilford County cannot rely on wells for their water supply. Greensboro obtains its water from Lake Higgins, which has a capacity of 800,000,000 gallons; Lake Brandt, which has a capacity of 2,200,000,000 gallons; and Lake Townsend, which has a capacity of 6,500,000,000 gallons.

The City of High Point obtains its water from City Lake, which has a capacity of 1,250,000,000 gallons, and New City Lake, which has a capacity of 3,000,000,000 gallons. Jamestown obtains its water supply from Oakdale Mill Pond, capacity unknown. Other municipalities in Guilford County obtain their water supply from wells.

The approximately 2,500 artificial lakes are used chiefly for irrigation, livestock water supply, recreation, fire protection, and flood prevention.

Land Use

According to the 1971 North Carolina Conservation Needs Inventory, the land use in Guilford County is approximately as follows: cropland, 101,666 acres; pasture, 30,235 acres; urban and built-up areas, 70,744 acres; forest, 192,300 acres; and other land, 20,995 acres.

Guilford Battleground National Park is maintained by the U.S. Park Service. The Greensboro-High Point-Winston Salem Regional Airport is maintained by the Greensboro-High Point Airport Authority. The City of High Point maintains two lakes for water supply and recreation and several other recreational parks. The City of Greensboro maintains a park and zoo and three lakes, which are used for water supply and recreation.

How This Survey Was Made

Soil scientists made this survey to learn what kinds of soil are in the survey area, where they are located, and how they can be used. The soil scientists went into the area knowing they likely would locate many soils they already knew something about and perhaps identify some they had never seen before. They observed the steepness, length, and shape of slopes, the size of streams and the general pattern of drainage, the kinds of native plants or crops, the kinds of rock, and many facts about the soils. They dug many holes to expose soil profiles. A profile is the sequence of natural layers, or horizons, in a soil; it extends from the surface down into the parent material that has been changed very little by leaching or by the action of plant roots.

This association makes up 29 percent of the county. It is about 60 percent Cecil soils and 30 percent Madison soils. The remaining 10 percent is Appling, Enon, and Mecklenburg soils, and Urban land on uplands and Chewacla, Congaree, and Wehadkee soils along small streams and drainageways.

Cecil soils are well drained. The surface layer is brown sandy loam about 6 inches thick. The subsoil is 46 inches thick; the upper part is yellowish red sandy clay loam, the middle part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 85 inches, is mottled red and yellow loam.

Madison soils are well drained. The surface layer is reddish brown sandy loam about 5 inches thick. The subsoil is 29 inches thick; the upper part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 80 inches, is mottled reddish yellow sandy clay loam in the upper part and mottled reddish yellow sandy loam in the lower part.

About one-half of this association is cultivated or is in pasture. The rest is in forest or in urban and industrial uses. Slope and a moderate shrink-swell potential are the main limitations in the use and management of these soils for farm and nonfarm uses.

This association has moderate potential for crops, moderate potential for most urban uses, and moderately high potential for woodland.

2. Madison-Cecil Association

Strongly sloping to steep, well drained soils that have a sandy clay loam, clay loam, and clay subsoil; on uplands

This association is on narrow ridges and side slopes. It is dissected by long, narrow drainageways.

This association makes up 3 percent of the county. It is about 65 percent Madison soils and 30 percent Cecil soils. The remaining 5 percent is Enon and Wilkes soils on the uplands and Congaree, Chewacla, and Wehadkee soils on flood plains of small streams.

The strongly sloping to steep Madison soils are well drained. The surface layer is reddish brown sandy loam about 5 inches thick. The subsoil is 29 inches thick; the upper part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 80 inches, is mottled reddish yellow sandy clay loam in the upper part and mottled reddish yellow sandy loam in the lower part.

The strongly sloping Cecil soils are well drained. The surface layer is brown sandy loam about 6 inches thick. The subsoil is 46 inches thick; the upper part is yellowish red sandy clay loam, the middle part is red clay, and the lower part is mottled red clay loam. The underlying material, to a depth of 85 inches, is mottled red and yellow loam.

Most of the acreage of this association is forested or is in urban uses. The rest is cultivated or in pasture. Slope is the main limitation in the use and management of these soils. This association has low potential for crops, low potential for most urban uses, and moderately high potential for woodland.

3. Enon-Mecklenburg Association

Gently sloping and sloping, well drained soils that have a sandy clay loam, clay, and clay loam subsoil; on uplands

This association is on broad, smooth interstream divides and side slopes. It is dissected by long, narrow drainageways.

This association makes up 49 percent of the county. It is 45 percent Enon soils and 20 percent Mecklenburg soils. The remaining 35 percent is Appling, Cecil, Coronaca, Helena, Iredell, Madison, and Wilkes soils on uplands and Chewacla, Congaree, and Wehadkee soils along streams and drainageways.

Enon soils are well drained. The surface layer is dark grayish brown fine sandy loam about 3 inches thick. The subsurface layer is yellowish brown fine sandy loam 5 inches thick. The subsoil is 25 inches thick; the upper part is light olive brown sandy clay loam, and the lower part is yellowish brown clay. The underlying material, to a depth of 75 inches, is mottled brownish yellow, black, and dark greenish gray loam.

Mecklenburg soils are well drained. The surface layer is reddish brown sandy clay loam about 7 inches thick. The subsoil is 31 inches thick; the upper part is mottled yellowish red and red clay, and the lower part is yellowish red clay loam. The underlying material, to a depth of 70 inches, is mottled red and brownish yellow silty clay loam.

About one-half of this association is cultivated or is in pasture. The rest is in forest or in urban uses. Slope, a moderate to high shrink-swell potential, and slow permeability are the main limitations in the use and management of these soils.

This association has moderate potential for crops, low potential for most urban uses, and moderate potential for woodland.

4. Wilkes-Enon Association

Sloping to steep, well drained soils that have a sandy loam, clay loam, sandy clay loam, or clay subsoil; on uplands

This association is on narrow ridges and long slopes. It is dissected by long, narrow drainageways.

This association makes up 4 percent of the county. It is 60 percent Wilkes soils and 35 percent Enon soils. The remaining 5 percent is Madison and Mecklenburg soils on the uplands and Congaree, Chewacla, and Wehadkee soils on flood plains.

The sloping to steep Wilkes soils are well drained. The surface layer is dark brown sandy loam about 7 inches thick. The subsoil is 11 inches thick; the upper part is mottled brownish yellow sandy loam, and the lower part is yellowish brown clay loam. The underlying material, to a depth of 52 inches, is yellowish brown clay loam in the

22 SOIL SURVEY

Borrow pits are areas where the soil has been excavated to a depth of more than 20 feet. The more recently excavated areas are bare and are subject to accelerated erosion. The older areas are eroded, but many of them have stabilized under pine and other vegetation. Some of the areas are smooth, and others have a highly irregular surface.

Quarries are areas where the regolith has been removed and the underlying rock has been quarried for use mainly as construction aggregate. These areas are open excavations as deep as 100 feet or more. Water fills the deeper cavities all year in most of the abandoned quarries. These cavaties are almost entirely devoid of vegetation. Some pine and cedar trees are around the top of the quarries, where the soil is exposed.

In sanitary landfill areas the original soil has been removed and solid waste material placed in alternating layers with the original soils and other soil materials. A few areas have been used as dumps for industrial and other wastes. Soil material was mixed in some of these dumps in low areas, and the land was then leveled. Some of the older sanitary landfills that are closed have stands of Virginia pine and shortleaf pine.

These areas are so diverse that onsite investigation of each unit should be made before proceeding with any land use practice.

Ur—Urban land. This land type consists of areas where more than 75 percent of the surface is covered with streets, buildings of all types, parking lots, railroad yards, and airports. The soils between these facilities are used for parks, lawns, playgrounds, cemeteries, and drainageways. The natural soils have been greatly altered by cutting, filling, grading, and shaping during the processes of urbanization. The original landscape, or topography, and the drainage pattern has been changed.

Most of the acreage of this land type is in the business districts of Greensboro and High Point or around the perimeter of the cities. Isolated areas are as small as 5 acres. Slopes are 2 to 10 percent.

The major concern is the excessive runoff from roofs, roads, and parking lots, which increases the flooding hazard in lower lying areas. There is a very severe hazard of waterway and reservoir siltation from areas that are graded and not immediately stabilized.

Determination of use and treatment requires onsite investigation.

VaB—Vance sandy loam, 2 to 6 percent slopes. This well drained soil is on narrow ridges on uplands. The mapped areas are 3 to 15 acres or more in size.

Typically, the surface layer is brown sandy loam about 6 inches thick. The subsoil is 34 inches thick; the upper part is mottled strong brown clay, and the lower part is mottled brownish yellow clay loam. The underlying material, to a depth of 72 inches, is mottled brownish yellow, white, and red clay loam.

Included with this soil in mapping are a few small areas of soils that have a clay loam surface layer. Also included are small areas of Appling, Enon, and Helena soils.

The organic-matter content of the surface layer is low. Permeability is slow, available water capacity is low, and the shrink-swell potential is moderate. Reaction of the subsoil is strongly acid or very strongly acid. Depth to bedrock is more than 60 inches. The seasonal high water table is at a depth of more than 6 feet.

Most areas of this soil are used for cultivated crops of pasture. The rest are forested. Slope, runoff, erosion, ar slow permeability are the main limitations in the use ar management of this soil.

This soil has moderately high potential for tobacc corn, milo, and small grain. It has high potential for ho ticultural crops, such as tomatoes, sweet corn, gree beans, and peas. Minimum tillage and crop residing management help to control runoff and erosion. Conservation practices such as maintaining sod in drainageway constructing terraces and diversions, stripcropping establishing field borders, contour farming, and using crop rotations that include close-growing crops also he conserve soil and water. The potential for hay as pasture plants such as ladino clover, red clover, fesculand sericea lespedeza. Proper pasture management help to ensure adequate protective cover, which reduces runo and controls erosion.

The potential for urban uses, such as houses a streets, is low because of slow permeability and le strength. Potential is moderate for recreation are because of slow permeability.

This soil has moderately high potential for broadle and needleleaf trees. The dominant trees are white or black oak, post oak, northern red oak, southern red or blackjack oak, cedar, maple, hickory, loblolly pine, sho leaf pine, and Virginia pine. The main understory speciare dogwood, holly, and sassafras. There are no mailimitations in the use and management of this soil i woodland. Capability unit IIIe-3; woodland group 30.

VaC—Vance sandy loam, 6 to 10 percent slopes. T well drained soil is on long, narrow side slopes. T mapped areas are 3 to 15 acres in size.

Typically, the surface layer is brown sandy loam about 6 inches thick. The subsoil is 34 inches thick; the upp part is mottled strong brown clay, and the lower part mottled brownish yellow clay loam. The underlying material, to a depth of 72 inches, is mottled brownish y low, white, and red clay loam.

Included with this soil in mapping are a few small are of soils that have a clay loam surface layer and a f small areas of soils that have gravel or small cobbles the surface layer. Also included are a few small areas Appling, Cecil, Enon, and Helena soils.

The organic-matter content of the surface layer is lepermeability is slow, available water capacity is low, at the shink-swell potential is moderate. Reaction of the soil is strongly acid or very strongly acid. Depth bedrock is more than 60 inches. The seasonal high watable is at a depth of more than 6 feet.

Most areas of this soil are forested. The rest are u for cultivated crops, for pasture, or for urban and inc

TABLE 1 .-- TEMPERATURE AND PRECIPITATION DATA [Recorded in the period 1951-74 at Greensboro, N.C.]

			Te	emperature			; ; 1 !	P	recipita	ation	
			1	10 wil.	ars in l have	Average		will	s in 10 have	Average	
Month	daily maximum	daily minimum		Maximum temperature higher than	Minimum temperature lower than	number of growing degree days 1	Average	Less	More	number of days with 0.10 inch or more	snowfall
	°E	<u>E</u>	° <u>F</u>	° <u>F</u>	c <u>E</u>	<u>Units</u>	<u> In</u>	<u> In</u>	<u>In</u>		<u>In</u>
January	48.3	27.8	38.1	73	5	12	3.25	2.02	4.35	7	4.2
February	51.1	29.3	40.2	72	8	11	3.63	2.52	4.65	8	2.2
March	59.1	36.1	47.6	83	17	96	3.76	2.47	4.92	8	2.3
April	70.5	45.8	58.2	89	28	257	3.31	2.34	4.19	7	0
May	78.1	54.9	66.5	93	35	512	3.27	1.62	4.61	7	0
June	84.5	62.9	73.7	98	48	711	4.21	2.21	5.83	7	0
July	87.4	66.8	77.2	98	54	843	4.00	2.25	5.43	8	0
August	85.9	66.1	76.0	96	52	806	4.36	2.41	5.94	8	0
September	80.5	58.9	69.7	94	41	591	3.11	1.08	4.72	5	0
October	70.6	46.9	58.8	88	27	280	3.06	.96	4.73	5	0
November	59.8	36.8	48.3	80	18	43	2.53	1.24	3.57	6	.3
December	50.4	30.1	40.3	73	7	28	3.50	1.79	4.88	; } 6	1.3
Year	68.9	46.9	57.9	99	žį.	4,190	41.99	37.80	46.03	82	10.3

¹A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (50 degrees F).



Scale ·1:20000



Reference No. 15

).	ECON NOTE
CONTROL NO. F4-8803-58	DATE: May 26, 1988	TIME: 11:15 a.m.
DISTRIBUTION:		
Glass, E. H. County Landfill Cone Mills Corp., White Oak Plant		
BETWEEN: David Moorefield	OF: Water Administration, Guilford Co. Water & Sewer Dept., Greensboro, N. C.	PHONE: (919) 373-2055
AND: Joan Dupont, NUS Corporation	Joan Dupont:	5/26/38
DISCUSSION:		
		Moorefield was not aware of any
drinking water intakes east of Greensbethe Haw River (after passing through Rein Alamance County.	oro on North Buffalo Creek or Buffalo	Creek. Buffalo Creek water enters

OVERSIZED DOCUMENT MAP



STATISTICAL ANALYSIS RELATING WELL YIELD TO CONSTRUCTION PRACTICES AND SITING OF WELLS IN THE PIEDMONT AND BLUE RIDGE PROVINCES OF NORTH CAROLINA

Reference No. 17

WATER RESOURCES INVESTIGATIONS REPORT 86-4132

Prepared in cooperation with the

North Carolina Department of Natural Resources

and Community Development

19

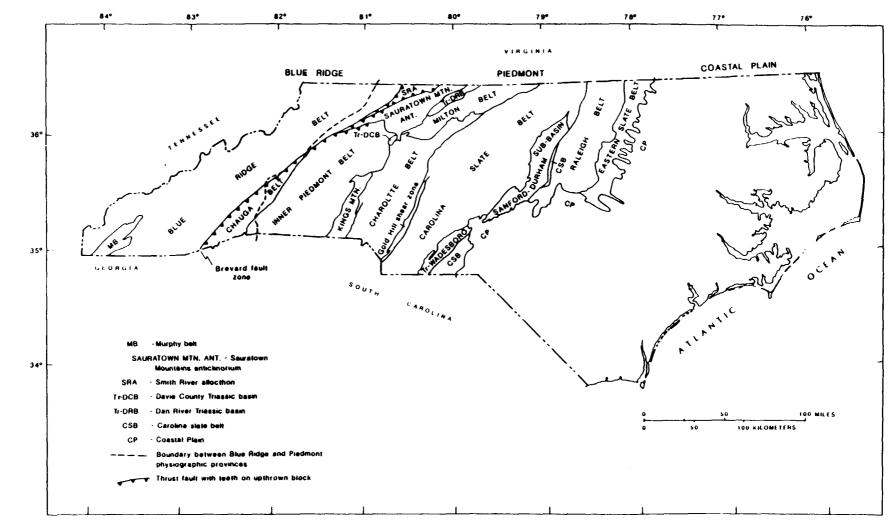


Figure 6.--Geologic belts, terranes, and some major structural features within the Piedmont and Blue Ridge provinces of North Carolina.

GROUND-WATER SUPPLY POTENTIAL AND PROCEDURES FOR WELL: SITE SELECTION UPPER CAPE FEAR RIVER BASIN

CAPE FEAR RIVER BASIN STUDY

Sponsored by

North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council

> 1155 Archdale Building P. O. Box 27687 Raleigh, NC 27611

> > (919) 733-4064

October, 1983

DESCRIPTION OF THE STUDY AREA

The study area is that part of the upper Cape Fear River basin that includes the Haw River basin, upstream from B. Everett Jordan Lake (fig. 1), and the Deep River basin, upstream from U.S. Highway 64. The Cape Fear River is formed by the juncture of the Haw and Deep Rivers about 3 miles downstream from B. Everett Jordan Lake. The study area includes 1,278 mi² (square miles) of the Haw and 472 mi² of the Deep River basins and covers parts of eight counties, including: Alamance, Caswell, Chatham, Forsyth, Guilford, Orange, Randolph, and Rockingham. The major population centers in the study area are Greensboro, High Point, Burlington-Graham, and Asheboro.

Geography

The upper Cape Fear River basin lies within the Piedmont province (Fenneman, 1938) as shown in figure 1. The topography of the region consists of low, rounded hills and long, rolling, northeast-southwest trending ridges. The upper surfaces of many ridges and interstream divides are relatively flat, thought to be remnants of the Piedmont peneplain, an ancient erosional surface of low relief. More recent erosion and downcutting by streams has dissected the Piedmont peneplain, creating a local topographic relief of 100 to 200 feet between ridge tops and stream bottoms. Summit altitudes of ridges along the northwestern margin of the basin, northwest of Troublesome Creek, are about 800 to 900 feet above sea level but decrease steadily to the southeast until they are no more than 500 to 600 feet at the edge of the study area near Pittsboro. The altitude of the Haw River at U.S. Highway 64 is less than 300 feet above sea level.

Geology

The geologic framework of the Piedmont consists of folded and fractured igneous and metamorphic bedrock, such as granite, gneiss, and schist, overlain nearly everywhere by unconsolidated material

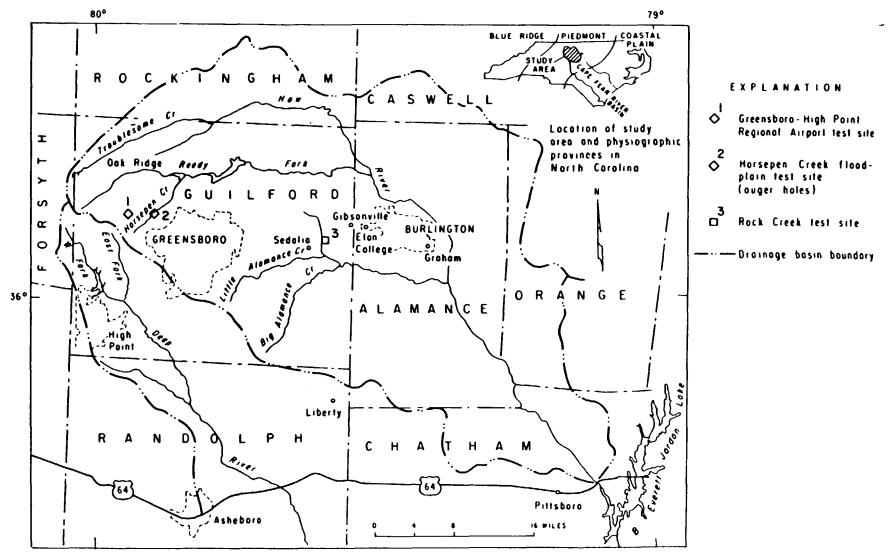


Figure 1.—Regional setting of the upper Cape Fear River basin study area in the Piedmont physiographic province of North Carolina.

termed regolith. The characteristics of bedrock and regolith and the hydrologic relation between them determines the water-supply potential of the ground-water system in the Piedmont province.

The major bedrock units (fig. 2) in the upper Cape Fear River basin are: (1) mafic volcanics, (2) sheared granite, (3) porphyritic granite, (4) felsic volcanics, (5) mica gneiss, (6) diorite, (7) mica schist, and (8) argillite. Throughout the study area the major rock units are intruded by numerous basaltic dikes that in some areas make up nearly half the volume of the total rock. The dikes can be subdivided into two groups: an older set that has been metamorphosed and a younger set that has not been metamorphosed.

Bedrock may be exposed at land surface or covered by unconsolidated material to depths of more than a hundred feet. Collectively this unconsolidated material, which is composed of saprolite, alluvium, and soil, is referred to as regolith. Saprolite is clay-rich, residual material derived from in place weathering of the bedrock. In many valleys the saprolite has been removed by erosion, and bedrock is exposed or thinly covered by alluvial deposits. Soil is nearly everywhere present as a thin mantle on top of both the saprolite and alluvial deposits.

The yield of bedrock wells is influenced by many factors, but the prime factor is the number and (or) size of rock fractures and other openings the well bore intersects. The differences in rock composition and texture shown in figure 2 and subsequent tectonic history of the bedrock units explain the relative abundance of fractures and openings in the different units and the ability of these to remain open pathways through which water can move.

For a given set of tectonic conditions, certain rocks respond by fracturing (brittle deformation), whereas other rocks deform by flowing or gliding of mineral grains (plastic deformation). Field evidence supports this thesis. Outcrops of the mafic volcanics unit which, apparently, is fairly brittle, commonly exhibit numerous closely spaced fractures. Joint spacings as close as 1 inch were

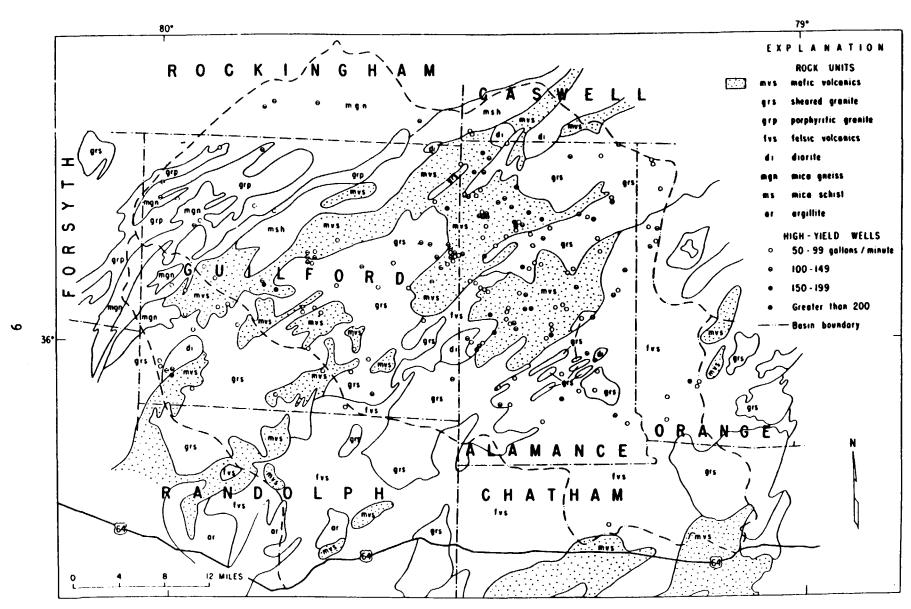


Figure 2.--Geologic map of the upper Cape Fear River basin showing locations and yields of high-yield wells as of 1982 (geology modified from Stuckey, 1958; Mundorff, 1948).

WELL-SITE SELECTION CRITERIA

Due to the complexity of the ground-water system in the Piedmont, sound hydrogeologic criteria are of utmost importance in selecting sites for high-yield wells. The following steps are suggested; first, determine possible correlations between the highest yielding wells and various geologic and geomorphic features; next, determine the location of zones or areas of abundant fractures which will transmit water; and finally, determine local areas of thick regolith, and therefore the greatest potential for ground-water storage.

Geologic Units

Information on geologic units and other geologic parameters was compiled from records for more than 300 wells producing more than 50 gallons per minute (referred to as high-yield wells). The locations of 195 of these could be accurately determined. Using data from the 195 wells, statistical analyses were conducted to determine possible relations between well yield and geologic unit, topographic position, distance from streams, and regolith thickness. A significant relation was found between well yield and geologic units; clear-cut relations could not be demonstrated for the other factors. This result was not unexpected, for differences in the relative abundance of fractures between rock units and the ability of these fractures to remain open pathways through which water can move are characteristic of differences in rock composition, texture, and tectonic history. The eight major geologic units and their areal distribution within the upper Cape Fear River basin are illustrated in figure 2. Locations of the 195 high-yield wells are also shown.

Table 3 lists, for selected yield intervals, the percentage of high-yield wells in each geologic unit. The mafic volcanies (mvs) unit has a far greater percentage of high-yield wells than does any other geologic unit. The percentage of wells in the mafic volcanics unit is even greater at the higher yield intervals than at the lower yield intervals. Ninety-one percent of all wells having yields of

2

Table 3.—Statistical summary of high-yield wells by geologic units in the upper Cape Fear River basin [mvs, mafic volcanics; grs, sheared granite; grp, porphyritic granite; fvs, felsic volcanics; mgn, chiefly mica gneiss, also includes wide variety of other gneisses and schists; di, diorite; msh, chiefly mica schist, includes mica gneiss and a wide variety of other gneisses and schists; ar, argillite]

Yield	Number of	Percenta	ige of we	lls in i	ndicated (geologic	unit by	yield in	terva
interval (gal/min)	wells	mvs	grs	grp	fvs	mgn	di	msh	ar
50- 99	110	, 45	26	5	20	4	0	0	0
100-149	62	44	27	2	13	10	5	0	0
150-199	12	50	8	0	33	0	8	0	0
200 or more	11	91	9	0	0	0	0	0	0
All wells	195	48	25	3	17	5	2	0	0
	Total	Area	and perc	entage o	f total a	rea for e	each geo	logic uni	t
Land area in square miles	1752	351	488	87	536	185	28	69	8
Percentage of total land area	100.0	20.0	27.8	5.0	30.6	10.6	1.6	3.9	0.5

200 gal/min or more are in the mafic volcanics unit. A similar correlation between well yield and rock type was found by Mundorff (1948) in his study of the Greensboro area. The mafic volcanics unit underlies 351 square miles, or 20 percent, of the study area and represents a significant area for potential ground-water development.

Because the geologic units do not underlie equivalent land area in the basin, it is perhaps more informative to compare the number of high-yield wells per square mile for each geologic unit. Table 3 also lists the land area underlain by each unit, and figure 8 shows graphically the number of high-yield wells per square mile for each geologic unit. The area underlain by the mafic volcanics unit is the most favorable for high-yield wells, whereas the areas underlain by the mica schist and argillite units are the least favorable. The five other major rock units (sheared granite, porphyritic granite, mica-feldspar gneiss, felsic volcanics, and diorite) are about equally favorable for obtaining high-yield wells, but about one-fifth to one-half as favorable as the mafic volcanics.

The area underlain by the sheared granite (fig. 2) is more favorable for high-yield wells than the area underlain by the porphyritic granite as shown by the data in table 3 and figure 8. Well inventories compiled from Mundorff's (1948) records indicate wells in the sheared granite have average yields 64 percent higher (16.7 gal/min versus 10.2 gal/min) than wells in the more massive porphyritic granite. Thus, by subdividing the granitic rocks on the basis of texture, we find that the second most likely area in which to obtain high-yield wells is that underlain by the sheared granite. Although the diorite has a slightly higher number of wells per square mile than the granite (fig. 8), the diorite, underlying but 1.6 percent of the total study area, will be only of local importance for ground-water supplies.

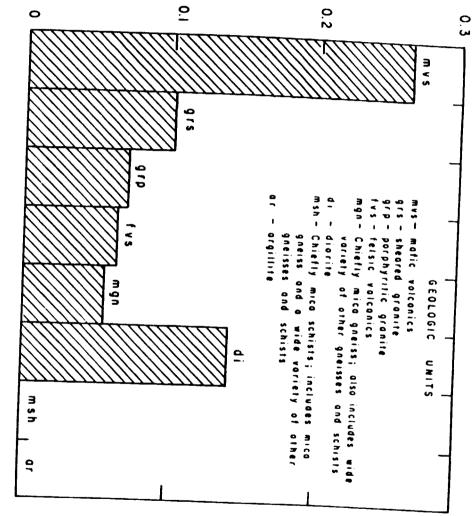


Figure 8. -- Number Seologic unit in the upper Cape Fear of high-yield wells per square mile in the upper Cape Fear River basin. у

yielding, which supports the observation that hills are underlain by poorly fractured rocks. The data in table 4, compiled from well records published by Mundorff (1948), are considered more representative of the areal distribution and range of yields of all wells drilled in the region than the inventory of high-yield wells made for this study.

Regolith Thickness

In the broader valleys much of the regolith consists of alluvium that is deposited and reworked by the meandering of the streams. Sediments on valley floors generally are thin and commonly are less than 10 feet thick; many stream channels have cut through the regolith and run on bedrock. There are very few broad stream valleys in the Piedmont where large amounts of sediment are accumulating, and the few exceptions encompass small areas. As part of the current study, three holes were augered in the broad flood plain of Horsepen Creek (site 2, figs. 1 and 12) about 2.0 miles northeast of the Greensboro-High Point Regional Airport. Seismic data suggested that this part of the flood plain is underlain by thick alluvial sediment; however, the auger reached rock at depths of 15, 16, and 28 feet. Most of the flood plain sediment consisted of silt and clay, often with abundant organic matter. No beds of sand or gravel were found. The test wells drilled in the flood plain of Rock Creek west of Gibsonville (site 3, fig. 1) penetrated 17 feet of coarse sand, gravel, and cobbles resting on highly sheared granite (see fig. 11). Mundorff (1950) reported 21 feet of sand, silt, and clay in a test well in the flood plain of South Buffalo Creek within the city of Greensboro. None of the flood-plain sediments drilled so far have been very thick.

Smaller tributaries usually have narrower valleys that contain little alluvium. Bedrock exposures are often found in the lower reaches of the tributary channels, but as one goes headward the bedrock eventually disappears beneath the soil and saprolite which has not been removed by erosion. In considering the function of the

soil and saprolite as a reservoir and the desirability of having as large a reservoir as possible from which to draw water, the smaller drainages underlain by thick regolith seem to be better sites than the larger, broader stream bottoms which may only contain a thin veneer of alluvium on top of bedrock.

Using average casing depth of wells as an indication of regolith thickness (table 1), one might assume that the upland flats have the largest, thickest regolith reservoir and therefore represent the best location for a well site. However, under the influence of gravity ground water flows away from the hilltops and toward lower lying discharge areas along streams and lakes. Consequently wells in the lower part of a drainage area are able to intercept water flowing toward them and, in effect, derive water from a larger area because of the natural gradient toward the well. Wells on hilltops, on the other hand, must induce flow toward the well by pumping.

The Ideal Well Site

An ideal site would be located in the geologic unit having the greatest probability of high yields, have thick regolith, a high water table, be underlain by highly-fractured bedrock, and have a large contributing drainage area. High-yield geologic units of the area are known (fig. 8); regolith thickness can be estimated from existing well data (table 1); and fracture locations can be inferred from types of stream drainage patterns discussed earlier.

Sites having the greatest possible saturated thickness of regolith must also be identified. The porosity and specific yield of the regolith decrease with depth (fig. 5). Consequently, sites with a large saturated thickness of regolith, and a high water table, will have the greater amount of available water in storage. In addition, the higher the water table, the greater the available drawdown to wells (in comparison to a well of similar depth in an area with a low water table). In the upper Cape Fear River basin the regolith is generally thickest in the interstream areas and thinnest in the flood plains of perennial streams. On the other hand, the depth to

National, Water Summary 1984

Hydrologic Events

Selected Water-Quality Trends

and Ground Water Resources

United States Geological Survey Water-Supply Paper 2275

NORTH CAROLINA Ground-Water Resources

Ground water is a vital natural resource in North Carolina. Ground water supplies more than 3.2 million people, or about 55 percent of the State's total population. Its economic significance is substantial, particularly in the Coastal Plain province (fig. 1), where high-yielding aquifers supply most municipalities, industries, rural areas, and livestock. In the Piedmont and Blue Ridge provinces, ground water serves slightly more than one-half of the 4 million residents (Mann, 1978). Besides withdrawals for public supply, the largest ground-water withdrawals in the State are for mining and quarrying operations and process water for a number of textile and chemical industries. Withdrawals for irrigation represent a small, but increasing, percentage of total ground-water use, particularly in the Coastal Plain. Ground-water withdrawals for various uses and other related statistics are given in table 1.

GENERAL SETTING

North Carolina is located in three physiographic provinces—the Coastal Plain, Piedmont, and Blue Ridge (fig. 1). The Coastal Plain aquifers generally are unconsolidated and consist of beds of sand, gravel, and limestone separated by clay or clayey layers and lenses. These strata dip and thicken southeastward and together comprise a wedge lying on crystalline bedrock (fig. 1). The Piedmont and Blue Ridge provinces are, for the most part, underlain by massive crystalline and metamorphic rocks that are covered nearly everywhere by a clayey or sandy regolith consisting of weathered parent rock material and alluvium.

Recharge to the ground-water system in North Carolina is derived from precipitation that ranges from about 44 to 54 inches (in.) in the Piedmont and Coastal Plain provinces and from about 40 to 80 in. in the Blue Ridge province (Eder and others, 1983). The amount of precipitation that recharges the ground-water system averages about 20 percent of annual precipitation (Winner and Simmons, 1977; Daniel and Sharpless, 1983). Most ground-water recharge moves through shallow aquifers and discharges to streams; only a small part (less than 1 in. in the Coastal Plain) recharges deeper aquifers.

PRINCIPAL AQUIFERS

The principal aquifers in North Carolina are the surficial, the Yorktown, the Castle Hayne, and the Cretaceous located in the Coastal Plain and the crystalline rock aquifer located in the Piedmont and Blue Ridge provinces. These aquifers are described below and in table 2; their areal distribution is shown in figure 1.

SURFICIAL AQUIFER

The surficial aquifer is a near-surface deposit of either marine-terrace sand and clay, or sand dunes. It is a principal aquifer in three areas where it is commonly more than 50 feet (ft) thick—the Sand Hills in the southwestern Coastal Plain, the narrow coastal strip of barrier islands called the Outer Banks, and the eastern one-half of the mainland north of Pamlico Sound (fig. 1). In the Sand Hills, where the aquifer may be more than 250 ft thick, it serves as a source for public supplies and irrigation for numerous golf courses (North Carolina Department of Natural Resources and Community Development, 1979). Water from this aquifer in the Sand

Table 1. Ground-water facts for North Carolina

[Withdrawal data rounded to two significant figures and may not add to totals because of independent rounding. Mgal/d = million gallons per day; gal/d = gallons per day. Source: Solley, Chase, and Mann. 1983]

and Mann, 1983]	
Population served by ground water, 1980	
Number (thousands) 3	,234
Percentage of total population	55
From public water-supply systems:	
Number (thousands) Percentage of total population	474
Percentage of total population	- 8
From rural self-supplied systems:	
Number (thousands) 2	,760
From rural self-supplied systems: Number (thousands) 2 Percentage of total population	47
Freshwater withdrawals, 1980	
Surface water and ground water, total (Mgal/d) 8	.100
Ground water only (Mgal/d)	770
Ground water only (Mgal/d)	10
Percentage of total excluding withdrawals for	
thermoelectric power	20
Category of use	
Public-supply withdrawals:	
Ground water (Mga)/d)	70
Percentage of total ground water	- 9
Percentage of total public supply	12
Per capita (gal/d)	148
Rural-supply withdrawals:	
Domestic:	
Ground water (Mgal/d)	140
Percentage of total ground water	18
Percentage of total rural domestic	100
Per capita (gal/d)	51
Livestock:	
Ground water (Mgal/d)	33
Percentage of total ground water	- 4
Percentage of total ground water Percentage of total livestock	85
Industrial self-supplied withdrawals:	
Ground water (Mgal/d)	490
Percentage of total ground water	64
Percentage of total industrial self-supplied:	
Including withdrawals for thermoelectric power	- 6
Excluding withdrawals for thermoelectric power	17
Irrigation withdrawals:	
Ground water (Mgal/d)	39
Percentage of total ground water	- 5
Percentage of total irrigation	30

Hills area has dissolved-solids concentrations less than 25 milligrams per liter (mg/L) and hardness less than 10 mg/L as calcium carbonate; the pH commonly is below 6, making it corrosive. Sands that form the Outer Banks are the only source of freshwater along much of the northeastern coast. The freshwater in these sands often has a dissolved-solids concentration of 500 mg/L and hardness of about 200 mg/L as calcium carbonate. On the mainland north of Pamlico Sound, the surficial aquifer ranges from 50 to 200 ft thick and may yield as much as 1 million gallons per day (Mgal/d) to single wells or small well fields. Here, water from the aquifer usually has dissolved-solids concentrations of less than 200 mg/L and hardness of less than 100 mg/L as calcium carbonate; the pH, however, may be as low as 5, which renders the



ing . to ared om not		Stone, and sittstone, interpedded with market and intermediate canic flows and tuffs
ng nornbiende gneiss ; megacrystic, abun-		METAMUDSTONE AND META-ARGILLITE — Thin to thick bedded; bed- sandstone, metaconglomerate, and stone metaconglomerate.
and gradational with st. and amphibolite		CZmd ₃ - Floyd Church Formation CZmd ₂ - Cid Formation CZmd ₁ - Tillery Formation (southwest of Asheboro)
if a tuffs and flowrock d basaltic to andesitio includes hypabyssal		MAFIC METAVOLCANIC ROCK — Metamorphosed basaltic flows and tuffs, dark green to black; interbedded with felsic and intermediate metavolcanic rock and metamudstone
ed dacitic to rhyolitic	CZIV	CZmv ₁ - Cid Formation (southwest of Asheboro) FELSIC METAVOLCANIC ROCK — Metamorphosed decitic to rhyolitic flows and tuffs, light gray to greenish gray; interbedded with mafic and intermediate metavolcanic rock, meta-amilities, and meta-
andalusite, kyanite, or		CZfv ₂ - Cid Formation (southwest of Asheboro) CZfv ₁ - Uwharne Formation (at Asheboro and to south)
d sillimanite; includes		INTERMEDIATE METAVOLCANIC ROCK — Metamorphosed andesitic tuffs and flows, medium to dark grayish green; minor felsic and matic metavolcanic rock
		METAVOLCANIC ROCK — Interbedded felsic to mafic tuffs and flowrock
65-325 my; 11,9) —		METAVOLCANIC-EPICLASTIC ROCK — Metamorphosed argillite, mud- stone, volcanic sandstone, conglomerate, and volcanic rock VOLCANIC METACONGLOMERATE — Includes metagraywacke and
tonic Suite (Western trusives	CZone	metamudstone PHYLLITE AND SCHIST — Locally laminated and pyritic; includes phyllo-
onian to Silurian, 385- Gold Hill, Kannapolis,		nite, sheared fine-grained metasediment, and metavolcanic rock. In Lilesville granite aureole, includes hornfels (CZph ₁), and biotite gneiss and schist (CZbg)
an, 404 my; 9) — in-		
nian to Ordovician, 399- fecklenburg, and Wed-	``	INTRUSIVE ROCKS
	\d-\	DIABASE — Dikes, gray to black
ve to weakly foliated;		
ve to weakly foliated; 21) — Poorly foliated,	PPg	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite
•		GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive
21) — Poorly foliated, ed to massive Foliated to massive	PP ₀	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black,
21) — Poorly foliated, ed to massive	PP ₀	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lileaville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite; mafic rock. Only larger	PP ₀	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, sospetone, and other altered ultramafic rock. Only larger
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite;	PP ₀	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagebbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metagebbro dunite and peridotite:
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite; mafic rock. Only larger	PPq	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, soapstone, and other altered ultramafic rock. Only larger bodies shown METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, 520-650 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains homblende. Chapel Hill, Chatham, Farrington, Meadow Flets, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite; mafic rock. Only larger	PPq	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, sospetone, and other altered ultramafic rock. Only larger bodies shown METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, 520-650 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains homblende. Chapel Hill, Chatham, Farrington, Meadow Flets, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite; mafic rock. Only larger	PPg	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagabbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, sospetone, and other altered ultramafic rock. Only larger bodies shown METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, 520-650 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains homblende. Chapel Hill, Chatham, Farrington, Meadow Flets, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County
21) — Poorly foliated, ed to massive Foliated to massive bro, metadiorite, and dunite and peridotite; mafic rock. Only larger	PPg SYMBOLS	GRANITIC ROCK (Pennsylvanian to Permian, 265-325 my; 11) — Megacrystic to equigranular. Lilesville granite PEE DEE GABBRO (Pennsylvanian, 314 my; 21) — Dark gray to black, medium to fine grained, massive METAMORPHOSED QUARTZ DIORITE — Foliated to massive METAMORPHOSED GABBRO AND DIORITE — Foliated to massive METAMORPHOSED MAFIC ROCK — Metagebbro, metadiorite, and mafic plutonic-volcanic complexes META-ULTRAMAFIC ROCK — Metamorphosed dunite and peridotite; serpentinite, scapstone, and other altered ultramafic rock. Only larger bodies shown METAMORPHOSED GRANITIC ROCK (Late Proterozoic to late Cambrian, \$20-850 my; 3,21,9,23,28,15) — Megacrystic, well foliated; locally contains homblende. Chapel Hill, Chathern, Farrington, Meadow Flets, Mt. Moriah, Parks Crossroads plutons, and Roxboro and Vance County suites

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Scarp — Hachured on downslope side

n downthrown side

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CLIMATIC ATLAS OF THE UNITED STATES



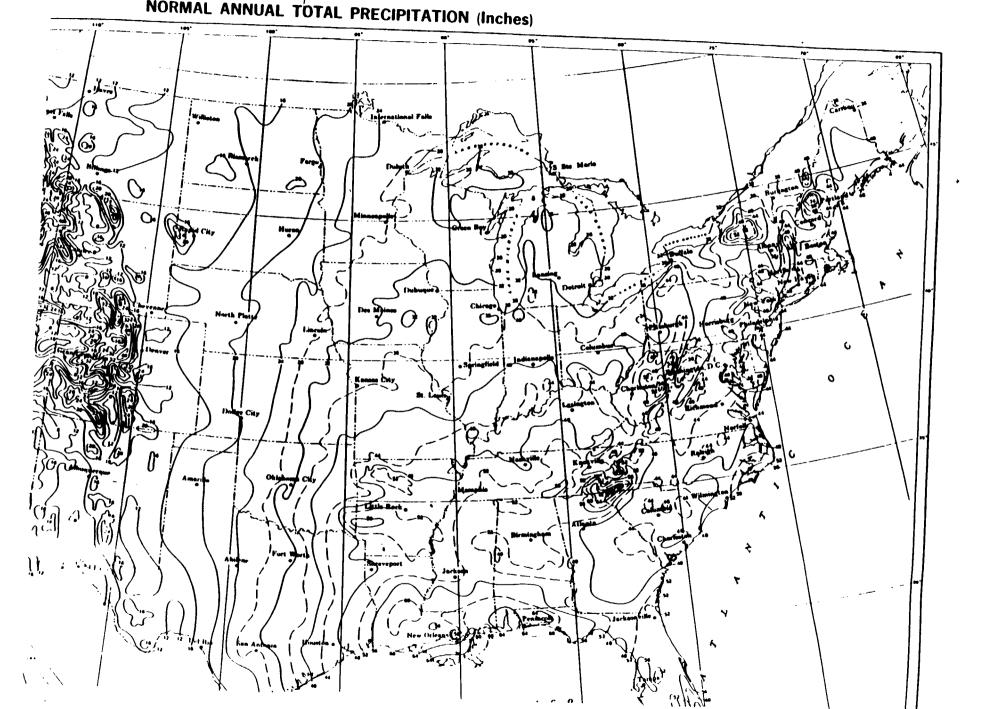
U.S. DEPARTMENT OF COMMERCE C. R. Smith, Secretary

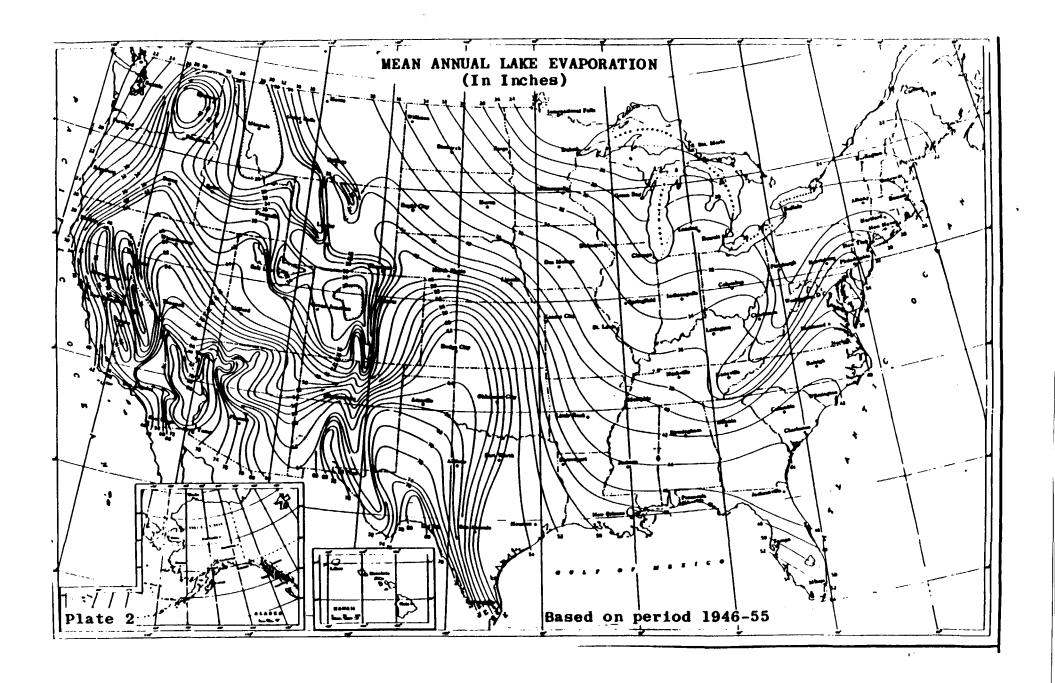
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION Robert M. White, Administrator

ENVIRONMENTAL DATA SERVICE Woodrow C. Jacobs, Director

JUNE 1968

REPRINTED BY THE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
1983





DANGTAN F. MONTHARD AND CARD HERVI DEVELOPMENTAL F. ENTERNAL

WELL RECORD

TO JUNEANIER SECTION P.O. 1 + 27087 + PALEIGH, N.C. 2/611

SELECTIVE CONTRACTOR Bainbridge & Dance 111 NO.	37 WELL CONSIDERED S FERRIT S
1. WE'D INCATION: Show sketch of the Incoming below	
Neurost Town: Greensboro, N.C.	Country: Guilford
	Contrancts to: $(6^{\frac{1}{2}}, 5, 3)$
(Poad, Controlly of Pahdivision of Wit to.) 2. Owner: Robert Beer	
3. Ampress: Greensboro, N.C.	
3. Andress:	DRIGHTS LCC
4. TOPOGRAPHY: Graw, valley, slope, hilltop, flat circle one: 5. Msn or well: domestic DATE: XXX.77. 3-78	
6. ODES THIS WELL PERLAGE AN EXISTING S.D.	0 l5 red clay
7. TOTAL DEPTH: 225 FIRSTON OR WITE PRITARY	15 65% brown dirt
R. COMMATICA SAMPLAY ONLINGTHER THE TOTAL TOTAL	654 225 gray granite
3. C/SP(5) Depth .ms b W.11 third 1.5	- dark green
State of the state	
From 654 61" 13F 721V	
and the second of the second o	
Five	
a principality and a confidence of the confidenc	1+3
1. SCRING CONTRACTOR OF A CONT	;
(Si	\mathcal{A}_{i}
2. GRAVED: Depth Size Material	; ;
From toft	
3. WATER ZONES(depth):	- Carrie was
4. STATIC WATER LEVEL: 30 Et. above top of rising	035
Casing is 6" ft. above land surface FLLV:	
5. YIELD (pun): 6 METHOD OF TESTIN - air	
6. PUMPING WARR LEVEL:ft afterindicas	5
ot opm. 14 02-50' water	3 / 4
7. CHLORINATION: Type HTH Amount	
8. WATER QUALITY:TEMPERATURE	
9. PERMANELL PUMP: Date [Listalled	Late Berette Res.
TypeCanacity	==23572 * 3
Airline Dopth	
9. HAS THE OWNER BEEN PROVICED A COLY OF THE BUILD OF THE PECOMMENDATIONS?	
1. REMARKS	
I do hereby corners that the well And the Angelia	and a man to with Mark well Construction
الكام المعت عن المساور وبالكام والمواجع المورية العاسل Regular Look and the state of	A 6 (482) A 6 C 78 (40) A

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES & COMMUNITY DEVELOPMENT

WELL RECORD

P.O. BOX 27687 - RALEIGH, N.C. 27611

DIVISION OF ENVIRONMENTAL MANAGEMENT, GROUNDWATER SECTION GU-6426

DR	ILLING CONTRACTORBainbridge & Dance REG. NO.	37 WELL CONSTRUCTION PERMIT NO.
	WELL LOCATION: (Show sketch of the location below)	
	Nearest Town: ####################################	County:Guilford
		Quadrangle No. G-53
_	OWNER: Brooks Lumber	OBTITUE TOC
		DRILLING LOG DEPTH
٥.	ADDRESS: Greensboro, N.C. hill TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)	and the same of th
	USE OF WELL: domestic DATE: rotary	0 5 brown dirt
	DOES THIS WELL REPLACE AN EXISTING WELL?	5 60 soft shale
		60 110 red shale
	FORMATION SAMPLES COLLECTED: YES NO	110 125 black granite
	CASING: Depth Inside Wall thick. type Dia. or weight/ft.	
	From to 63 ft 64" 13# galb	
		Maria Land Maria
10.	GROUT: Depth Material Method	AUG 24 1981
	Prom to 20 ft cement pour	
		2
11.	SCREEN: Depth Dia. Type & Opening	If additional space HYDROLOGY UNINCH OF NORTH
	From to ft (Show	· TOCKMINE GERMON
	(Show	/ dista
		Charek 2
12.	GRAVEL: Depth Size Material	
	From to ft	
13.	WATER ZONES(depth): 70 -110	18 1
	70 -110	
14.	STATIC WATER LEVEL: ft. above top of casing	30
	Casing is 611 ft. above land surface ELEV:	
15.	YIELD (gpm): METHOD OF TESTING: air	13
	PUMPING WATER LEVEL:ft.	274
	afterhours atgpn.	2
17.	CHLORINATION: TypeHTH 12 odenit water	
18.	WATER QUALITY:TEMPERATURE(OF)	•
19.	PERMANENT PUMP: Date Installed	
	Type Capacity (gpm) HP	
	MakeIntake Depth	
	Airline Depth	
20.	HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND RECOMMENDATIONS?	INFURMED OF THE DEFENSION OF THE PROPERTY PARTY
21.	REMARKS	
	I do hereby certify that this well was constructed in Regulations and Standards and that this well record is	

SIGNATURE OF CONTRACTOR OF MENT DATE

Rete sa the Ham.

LEVEL

HOTESOOK NO. 311

ENNE AR Blant Sur

a product of

J. L. DARLING CORPORATION TACOMA, WASHINGTON 98421 U.S.A.

LOGBOOK REQUIREMENTS REVISED - JANUARY 6, 1968

NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

- Record on front cover of the Logbook:
 TDD No., Site Name, Site Location, Project Manager
- 2. All entries are made using ink.
- 3. Provide statement referencing Equipment Location Log.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field feam with team member signatures.
- Sign and date each page. Project Manager is to review and sign off on each logbook daily.
- A single line is drawn through error. Each correction is dated/initialed.
- Report weather conditions. Provide general site description and remarks.
- Document all changes from project planning documents.
- 9. Provide a site sketch with sample locations.
- 10. Document all calibration and preoperational checks of equipment.
- 11. Provide reference to Sampling Field Sheets for detailed sampling information.
- Maintain photo log by completing the stamped information at the end of the logbook.
- If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

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SAMPLING FIELD SHEET

	A Halliburton	Company
--	---------------	---------

TDD NO: • F4-8808-87

•	JU	• •	- 6435	NUME	EK :	1028
	PROJECT	NUMBERS-ORGANIC: AS	-607 INOS	GAMC. SI	1-554	

ADDRESS: 2420 FAIRVIEW STREET	Δ	DDR	ESS :	2420 FAIRVIEW STREET
-------------------------------	---	-----	-------	----------------------

GREENSBORO, NORTH CAROLINA

SAMPLE CODE: CM- SW-01

SAMPLE LOCATION :_

CONTACT : TOM ALSPAUGH PHONE: (919) 379-6679 N. Biffalo

Duplicate

SAMPLED BY:

DOUG CHATHAM

WILLIE SMITHERMAN

4 MARK HITCHGOCK

DATE SAMPLED : AUGUST 14 1988 TIME : 1025

SOIL / SEDIMENT SAMPLE

OK.	CONTAINER	CICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
	9 02, 01,36	337. CRG.			
	4 02, 0433	YOA			
	8 02 GL133	METAL3/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	SICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
2	1. GALLON GLASS	EXT. ORG.		DC 082	4-06421,22
2	40 ML VAL, GLASS	YGA		01082	4-16423, 24
1	1 LITER POLYPROPYLENE	METALS		mDC 082	4-06425
2	1 LITER POLYPROPYLEIG	GYAMBE		MBC082	4-06426,27
	OTHER				

FIELD MEASUREMENTS

pH: 5.0	TEMPERATURE: 24°C	TIME :		
		CONDUCTIVITY:	127	

WATER LEVELS PURGING TIME START: METHOD: RATE PRIOR TO PURGING: TIME STOP: TOTAL EST. GAL REMOVED: PRIOR TO SAMPLING:

REMARKS & CALCULATIONS: TOTAL DEPTH

DNd

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO.



SAMPLED BY:

NO.

NO.

DOUG CHATHAM

CONTAINER

8 0Z GL138

4 02 6433

8 02, GL133

CONTAINER

1. GALLON GLASS

40 ML YML, GLASS

1 LITER POLYPROSYLEM

1 LITER POLYPROSYLEN

OTHER

OTHER

SAMPLING FIELD SHEET CORP. WHITE OAK PLANT A Halliburion Company TDD NO. : F4-8803-67 CASE NUMBER : 10268 PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684 __ SAMPLE CODE: CM-Sb-01 ADDRESS: 2420 FAIRVIEW STREET __ SAMPLE LOCATION:__ GREENSBORO, NORTH CAROLINA N. Buffalo Creek Upgradent CONTACT : TOM ALSPAUGH PHONE: (919) 379-6679 Doplicate ___ 3 ANDY SPAUGH WILLIE SMITHERMAN **4** MARK HITCHCOCK DATE SAMPLED : AUGUST 22, 1988 TIME: (570 SOIL / SEDIMENT SAMPLE LABORATORY **CICYJANA** SAMPLE NO. TAG NO. SIT. CRG. DC 083 4-06428 De or3 VOA 4-06429 MDL 083 METALS/CYANIDE 4-06430 WATER SAMPLE **SICYLANA** LABORATORY SAMPLE NO. TAG NO. EXT. ORG. YOA METALS CYAMBO . FIELD MEASUREMENTS

pH : TI	TIME :		
	IMPERATURE :	CONDUCTIVITY	:
WATER LEVELS	PURGING		
PRIOR TO PURGING:	METHOD: RATE:		TIME START:
PRIOR TO SAMPLING:	TOTAL EST. GAL REMOVED:		TIME STOP:
0044040 4 044044 4044			

REMARKS & CALCULATIONS: TOTAL DEPTH

hNU

WATER LEVEL

F4-1007 THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. .



SAMPLING FIELD SHEET

3115	TOTAL MILES CONF. WITH	IL UAK PLA
TDD	NO. : F4-8803-67	CASE

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

ADDRESS: 2420 FAIRVIEW STREET

GREENSBORG, NORTH CAROLINA

SAMPLE CODE: CM-SW-02

SAMPLE LOCATION:__

CONTACT : TOM ALSPAUGH

PHONE: (919) 379-6679

BIFFELD Creck - Midstraca

.CASE NUMBER : 10258

SAMPLED BY:

DOUG CHATHAM

3 _ ANDY SPAUGH

WILLIE SMITHERMAN

MARK HITCHCOCK

DATE SAMPLED : AUGUST 2 7, 1988

SOIL / SEDIMENT SAMPLE

Ю.	CONTAINER	CICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
	3 02, 01,38	3.77. CRG.			
	4 02, 01,33	VOA			
	8,02, GLJ38	METAL3/CYANIDE			
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1. GALLON GLASS	EXT. ORG.		DC 084	4-36431
2	40 ML VML, GLASS	VOA		DC 084	4-06432,33
1	1 LITER POLYPROPYLEME	METALS		MOL 084	4-06434
J	1 LITER POLYPROPYLENE	GYAMBE		MOL 084	4-16435
	OTHER				

FIELD MEASUREMENTS

DH: 55	TEMPERATURE: 25°C	TREE:	
		CONDUCTIVITY: 1949	

WATER LEVELS PURGING TIME START: METHOD: RATE PRIOR TO PURGING: TIME STOP: PRIDE TO SAMPLING: TOTAL EST. GAL REMOVED:

REMARKS & CALCULATIONS: TOTAL DEPTH

hNU

WATER LEVEL

F4-1007 THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO. .



SAMPLING FIELD SHEET

	COPPORATION	SITE : COM	E MILLS CORP. WHITE	OAK PLANT	
C	A Halliburton Company	TDD NO. :	F4-8808-67 C	ASE NUMBE	R : 10258
		PROJECT NUM	BERS-ORGAMC: 88-60	7 INORGANIC: 88-	J 84
ADI	DRESS : 2420 FAIRVI	-	SAMPLE	CODE : CM- S	D-02
	GREENSBORO, N	ORTH CAROLINA	SAMPLE	LOCATION:	
CO	NTACT : TOM ALSPAUG)H	N. Buffe	.lo Creek -	
	ONE : (919) 379-66				M.03/742~
SAN	APLED BY:		3 ANDY SPAU	on	
	WILLIE SMITHERMAN	····	4 MARK HITCH		
	Z SAMPLED :AUG		TIME :		
UAI	E SAMPLED :			7,73	
		SOIL / SI	EDIMENT S	AMPLE	
NO.	CONTAINER	CICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
70.	8 02, 6438	EXT. CAG.	- SONATORI		
				06 282	4-06436
(4 02, 6133	VOA		DC 085	4-06 437
1	8 02 GL33	METAL3/CYANIDE		DC 085	4.36438
	OTHER	·			<u> </u>
		TAW	er sampli	5 .	
NO.	CONTAINER	ANALY313	LABORATORY	SAMPLE NO.	TAG NO.
	1. GALLON GLASS	EXT. ORG.			
	40 ML YAL, GLASS	VOA			•
	1 LITER POLYPROPYLENE	METALS			
	1 LITER POLYPROPYLENE	CYAMBE			
	OTHER				
		EIEI D	MEASUREM	ENTO	
		LIETA	MEASUREM	THE:	
pH:		EMPERATURE:_			
-			<u> </u>	COMBUCTIVITY	
WATE	u reasre ,	PURGING			
	TO PURGING:	METHOD:	RATE		TIME START:
	TO SAMPLING:	TOTAL EST. QA	L REMOVED:		TIME STOP:
KE MA	RKS & CALCULATIONS:	TOTAL DEPTH		hNU	

SAMPLING FIELD SHEET SAMPLING FIELD CORPORATION SITE: COME MILLS COMP. WHITE OAK PLANT A Halliburion Company TDD NO. : F4-8808-67 CASE NUMBER : 10258 PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684 ADDRESS: 2420 FAIRVIEW STREET SAMPLE CODE: CM-500-03 GREENSBORD, NORTH CAROLINA SAMPLE LOCATION :____ N. Boffali Creck - downgrai aut CONTACT : TOM ALSPAUGH PHONE: (919) 379-6679 SAMPLED BY: 1 DOUG CHATHAM 3 ANDY SPAUGH 2 WILLIE SMITHERMAN 4 MARK HITCHCOCK DATE SAMPLED : AUGUST 22, 1988 TIME: 12/5 SOIL / SEDIMENT SAMPLE NO. CONTAINER **CICYJANA** LABORATORY SAMPLE NO. TAG NO. 8 02 GLASS 117. CRG. VOA 4 02, 61433 8 02, QL133 METALS/CYANIDE OTHER WATER SAMPLE NO. CONTAINER **EIEYJANA** LAGCRATORY SAMPLE NO. TAG NO. 1. GALLON GLASS EXT. ORG. DC 086 4-06439 40 ML VML . CLASS DC 086 2 VOA 4-06440 41 1 LITER POLYPROPYLEM METALS MDL 086 4-06442 MOL OSG 1 LITER POLYPROPYLES CYANES . 4-06443 OTHER

FIELD MEASUREMENTS

pH: 5.0	TEMPERATURE :	25°C	TIME :	
			COMOUCTIVITY	: 369
WATER LEVELS	PURGING			
PRIOR TO PURGING:	METHOD:	RAT	MB:	TIME START:
PRIDE TO SAMPLING:	TOTAL EST. G	AL REMOVED:		TIME STOP:
25MARKS A 6416W ATIO				

EMARKS & CALCULATIONS: TOTAL DEPTH

hNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO. ______



SAMPLING FIELD SHEET

	A Halliburion Company		F4-8803-87		9 . 10020
U		PROJECT NUM	BERS-ORGANIC: 88-60	7 INORGANIC: 88-	7 1 10496
AD	ORESS: 2420 FAIRVI	EW STREET		CODE: CM- 5	
	NTACT : TOM ALSPAUC		N. 3,14.	lo Creek - J	oungradient
SAN 1	APLED BY:		3 ANDY SPAU	- GH	
2	WILLIE SMITHERMA	N .	4 MARK HITCH	ICOCK	
DAT	E SAMPLED : AUG	UST 24, 1988	TIME :	1220	
	- ,		EDIMENT S		
Ю.	REMILTINGS	EIEYJANA	LABORATORY	SAMPLE NO.	TAG NO.
(9 02, 91,38	EXT. CAG.		DL 087	4-06 444
1	4 02, GLJ33 ·	YOA		DL 087	4-06445
}	6.02, 61733	METAL3/CYANIDE		MDL 087	4-06446
	OTHER				
		TAW	er sampl	E .	
NO.	CONTAINER	SICYLANA	LABORATORY	SAMPLE NO.	TAG NO.
	1. GALLON GLASS	EXT. ORG.	-		
	40 ML YML, GLASS	YGA			•
	1 LITER POLYPROPYLEM	METALS			
	1 LITER POLYPROPYLENS	GYANNE			
	OTHER				
		FIELD	MEASUREM		
pH:.		TEMPERATURE :		TIME :	
				COMDUCTIVITY	
PRIOR	R LEVELS	PURGING METHOD:	RATE	_	TIME START:
	TO SAMPLING:	TOTAL EST. Q	L REMOVED:		TIME STOP:

MU

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO. _



SAMPLING FIELD SHEET

CITE : COME MILLS CORP. WHITE OAK PLANT

	9116		Ξ
A Halliburton Company	TDD	NO: : F4-8803-67	C

CASE NUMBER: 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

ADDRESS:	2420 FAIRVIEW STREET	SAMPLE	CODE : CM- TB-01

GREENSBORO, NORTH CAROLINA SAMPLE LOCATION:

CONTACT : TOM ALSPAUGH TIP Blank

PHONE: (919) 379-6679

SAMPLED BY:

DOUG CHATHAM

WILLIE SMITHERMAN 4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 27, 1988 TIME: /245

SOIL / SEDIMENT SAMPLE

ю.	REMILTINGS	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	0 02, 01,30	EXT. CRG.			
	4 02, 01,39	VOA			
	و محر مدعع	METAL3/CYANIDE			
-	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALY313	LABORATORY	SAMPLE NO.	TAG NO.
1	1. GALLON GLASS	EXT. ORG.		DL 081	4-06416
2	40 ML VML, GLASS	YGA		00081	4-26417,17
1	1 LITER POLYPROPYLENE	METALS		MOL 081	4-36419
1	1 LITER POLYPROPYLENS	GYANDE		MDC 081	4-06420
	OTHER				

FIELD MEASUREMENTS

pH :	TEMPERATURE :	TRAE:	
		COMDUCTIVITY:	

WATER LEVELS PURGING TIME START: PRIOR TO PURGING: METHOD: RATE: TIME STOP: PRIOR TO SAMPLING: TOTAL EST. GAL REMOVED:

REMARKS & CALCULATIONS: TOTAL DEPTH

HNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO.

NUS	SAI SITE: COM	MPLING	FIELD S	SHEET
A Halliburton Company	TDD NO. :	F4-8803-67 C	ASE NUMBE	R : 10258
	PROJECT NUMI	BERS-ORGANIC: 88-60	7 INORGAMC: 88-	184
ADDRESS : 2420 FAIRVI	EW STREET	SAMPLE	CODE : CM- P	W-01
GREENSBORO, N	ORTH CAROLINA	Sample	LOCATION:	
CONTACT : TOM ALSPAUG			Johansen	1.10.17
PHONE: (919) 379-68				
			BLANK	MLO
SAMPLED BY:				
1 DOUG CHATHAM		3 _ANDY SPAU	IGH	
2 WILLIE SMITHERMAN				
DATE SAMPLED : AUG	WST2>, 1988	TIME :	1310	
<u>-</u> .	SOIL / SE	DIMENT S	AMPLE	
NO. CONTAINER	CICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
9 02, 0438	SXT. CMG.			
4 02, 0439	YOA			
OTHER				
		a Sawpl	E .	
NO. CONTA		LABORATORY	SAMPLE NO.	TAG NO.
		EASONATOR!		IAG NO.
1 CALLON CLASS	ext, one,		-Se + 33	- to the team
AO M. YML, GLASS			A-077	4 06405
1 LITER POLYPROPYLENE	METALS		MDL 077	4-06404
1 LITER POLYPROPYLENE	GYANDE ·		MOLOTT	4-06405
OTHER				
	SIE! D	MEASUREM	ENTQ	
	LIEPA I	MEAGUNEM		
pH:T	emperature:_		TIME:	
			COMBUCTIVITY	
WATER LEVELS	PURGING	_		
PRIOR TO PURGING:	METHOD:	RATE		TIME START:
PRIOR TO SAMPLING:	TOTAL EST. QA	L REMOVED:		TIME STOP:

hNU

4

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.



SAMPLING FIELD SHEET SITE: COME MILLS CORP. WHITE OAK PLANT

NOTA!	SILE:	COME MILLS COMP.	WHITE OAK PLAN
_		A #4.4000 on	_

F4-8608-67 C BERS-ORGANIC: 88-60 SAMPLE	7 INORGANIC: 88-	
SAMPLE	AARE . CM. A	
SAMPLE I	CODE: CIPP	W-02
SAMPLE		,
	James 1	Well
	<	Λ
	•	_ 0
		
		
	7350	
EDIMENT S	AMPLE	
LABORATORY	SAMPLE NO.	TAG NO.
PLI		
ATORY	SAMPLE NO.	TAG NO.
	DC 078	4-06406
	100 078	4.06407,00
	MDC 078	4-06409
	MDL 078	4.06413
MEASUREM	ENTS	
	TIME :	
	COMDUCTIVITY	:
		
	İ	
RATE		TIME START: TIME STOP:
	A MARK HITCH TIME: DIMENT S LABORATORY ATORY MEASUREM	ATORY SAMPLE NO. DC 078 MDC 078 MDC 078 MDC 078 MDC 078

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG SOOK NO. __



SAMPLING FIELD SHEET

	V	
A Halliburton Company	TDD NO. : F4-8803	-57

ASE NUMBER: 10256

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

A	n	n	ß	23	•	2420	FAIRVIEW	STREET

GREENSBORO, NORTH CAROLINA

SAMPLE CODE: CM- 5W- 04 SAMPLE LOCATION :__

CONTACT : TOM ALSPAUGH

PHONE: (919) 379-6679

Holding Tank

SAMPLED BY:

DOUG CHATHAM

3 ANDY SPAUGH

WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST , 1988

TIME : ___ 1430

SOIL / SEDIMENT SAMPLE

.ОК	CONTAINER	CICYJANA	LABORATORY	SAMPLE NO.	TAG NO.
	0 02, 01,38	327, 600			
	4 02, 64				
	0,02, GL				
	OTHER				

WATER SAMPLE

NO.	CONTAINER	ANALYSIS	LABORATORY	SAMPLE NO.	TAG NO.
	1. GALLON GLASS	EXT. ORG.			
	40 ML VAL, GLASS	YOA			•
1	1 LITER POLYPROPYLENE	METALS		MOL 079	4-06411
	1 LITER POLYPROPYLENE	CYAMBE			
	OTHER				

FIELD MEASUREMENTS

pH:	TEMPERATURE :	TIME :		
		COMDUCTIVITY :		Γ

WATER LEVELS PRIOR TO PURGING: PRIOR TO SAMPLING PURGING METHOD:

RATE:

TIME START: TIME STOP:

TOTAL EST. GAL REMOVED:

MU

REMARKS & CALCULATIONS: TOTAL DEPTH

WATER LEVEL

F4-1007 THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO. .



SAMPLING FIELD SHEET

n Company TI)[

D NO. : F4-8808-67

CASE NUMBER: 10258

PROJECT NUMBERS-ORGANIC: 88-607 INORGANIC: 88-684

GREENSBORO, NORTH CAROLINA

SAMPLE CODE: CM- 50.05 SAMPLE LOCATION :___

CONTACT : TOM ALSPAUGH

Textice Rd. Diainage

PHONE: (919) 379-6579

PLANK Soil

SAMPLED BY:

DOUG CHATHAM

3 ANDY SPAUGH

WILLIE SMITHERMAN

4 MARK HITCHCOCK

DATE SAMPLED : AUGUST 24 1988

SOIL / SEDIMENT SAMPLE

Ю.	CONTAINER	EIEYJANA	LABCRATCRY	SAMPLE NO.	TAG NO.
	8 02, GL/36	337. CRG.		DC 080	4-06412
ţ	4 02, 01,33	VOA		DC 080	4-06413
,	8,02, QLJ38	METAL3/CYAMIDE		MDL 080	4-06414
	OTHER				

					
NO.	CONTAINER	ANALTE	<u> </u>	NO.	TAG NO.
	1. GALLON GLASS	EXT. O			
	40 ML VML, GLASS	YGA			•
	1 LITER POLYPROPYLENE	METALS			
	1 LITER POLYPROPYLEM	CYAMBE			
	OTHER				

FIELD MEASUREMENTS

рН:	EMPERATURE:	COMBUCTIVITY:		Γ
WATER LEVELS	PURGINA	T	.1	 -

METHOD: PRIOR TO PURGING. PRIOR TO SAMPLING: TOTAL EST. GAL REMOVED:

RATE:

TIME START: TIME STOP:

REMARKS & CALCULATIONS: TOTAL DEPTH

hNU

WATER LEVEL

THIS FIELD SHEET IS AN EXTENSION OF FIELD LOG BOOK NO.



1927 LAKESIDE PARKWAY SUITE 614 TUCKER. GEORGIA 30084 404-938-7710

C-586-8-8-189

August 25, 1988

Mr. Tom Bennett Environmental Protection Agency College Station Road Athens, GA 30613

Subject:

Cone Mills Corp. White Oak Plant Greensboro, NC TDD No. F4-8803-57 Agrico Chemical #2 Greensboro, NC TDD No. F4-8804-09

Approved

Dear Mr. Bennett:

Enclosed please find the inorganic traffic reports, for Case Number's 10258 & 10257. Case #10258 was shipped on August 24, 1988. Case #10257 was shipped on August 25, 1988.

If you have any questions on the paperwork or shipments, please contact me.

Very truly yours,

Andrew Spaugh
Field Administration

AS/kw

Enclosures

Э



1927 LAK**ESIDE PARKWAY** SUITE 614 TUCKER, GEORGIA **3006**4 404-936-7710

C-586-8-8-188

August 25, 1988

Mr. Tom Seigler HWI Sample Management Office Post Office Box 818 Alexandria, Virginia 22313

Subject:

Cone Mills Corp.

White Oak Plant Greensboro, NC TDD No. F4-8803-57 Agrico Chemical #2 Greensboro, NC TDD No. F4-8804-09

Approved

Dear Mr. Seigler:

Enclosed please find the inorganic traffic reports, for Case Number's 10258 & 10257. Case #10258 was shipped on August 24, 1988. Case #10257 was shipped on August 25, 1988.

If you have any questions on the paperwork or shipments, please contact me.

Very truly yours,

Andrew Spaugh

Field Administration

AS/kw

Enclosures

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7. • c. (4.)

							MDC 080	mor 279	'	MOL 077	MDL 081	`	MDC 286	MOL 085	mor 084	MOL OX3	MOL OSI	SAMPLE NUMBER (FROM LABELS)	<u>0</u>			LOTAL CENT		REGION NO: SAN	GAGENS BY 40' V	CONE M, 15	NON-SOFERFOND-	_ o Ø 9
			·	_			4		7	2	•	4	~	5	2	5	_	SAMPLE ((FROM BC 1 2	DESCRIPTI DX 1) 3 4 5	ON 5 6	⊗ 7	PAL	S S	SAMPLING (20	200		ESI RIFS
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							XX		X	*	×	×	×	×	×	×	X		METALS		0		•	۲ 9			PHOGHAM	}
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		_	\vdash			Н					-		_	┢		_	-	ME SULFICE	OLVED TALS	ĕ ĕ		AIRBILL NO:	ATE S	BEGIN:	AMPL	N: (ČH	JTC (
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 	Н	-					_			-		一			 	-		CONDUC- TIVITY	(SAS) ONLY HIGH		İ		DATE SHIPPED: 8		SAMPLING DATE:	KI CKYI CLE	SUITE L-	Research (
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														4.	(0					SPECIAL HANDLING	0	02 (3 10	74 CARRIER: FC ⑤	END:	22 XX ®	CJ Me Fareb	7 0850	CASULTANS
							20-92	251-04	Puraz	PW-01	TB-01	30-03	SW 23	50-02	Sw-02	SDOI	SW-01	C & -	•	STATION				· · · · · · · · · · · · · · · · · · ·	SHIP MEDIUM AND	SPIKE/DUPLICATE	3. רבאטחאו	(ENTER IN BOX A) 1. SURFACE WATER 2. GROUND WATER
				11年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の					•										ing and a second				SEE REVERSE FOR ADDITIONAL INSTRUCTIONS		JM AND HIGH CONCENTRATION N PAINT CANS	LICATE AQUEOUS SAMPLE	- 1	4004

RECEIPT FOR SAMPLES

ENVIRONMENTAL SERVICES DIVISION COLLEGE STATION ATHENS, GEORGIA 30613

PROJ. N		PROJ	ECT (NAMI	<u> </u>			Name o	Facil	lity/Site		····				
88-60		İ	-				→			C 24.05	Mus	CURA	9			
SAMPLE	RS: (81)	natyre)			· · · · · · · · · · · · · · · · · · ·							_				
l 							į	Facility/Site Location								
Split Sar	noles O	fter	-0		and	73.Bu		Facility/Site Location 2420 FAIR VIEW ST.								
	(Accepted () Declined									_		_				
										GKE	SWI JUR	، ، ۸۱۵	· ,	1		
SIA NO	DATE	TIME	COMP	GRAB	SPLIT SAMPLES	TAG NUN	ABERS			STATION D	ESCRIPTION		NO OF CON- TAINERS		REMARKS	
	8/12			X	Yes	4-06921, 22, 23	242526 27	W. But	K.h	Creck	Upgra	J:ent	6	TAG #	1's ARE E	PA NUS
30-01	8/22	1030		X		4-064272		, ,,		• •			3	Use.	station loca	t.m
34-02				X	VES	4-06431,3	2,33 34 35	" .	•	41	Midst	/e-~	6		aple ide	
50-02	8/22	1135		x	ves	4-16436.	37 38	.,	••		***		3		/,	/
5W-03	8/22	1215		χ	7-S	4-06439 40	0,41,4443	••	,,	••	Downs	radia+	6		11	
50-03	8/22	1220		7	y es	4-06444,4	15.46	"	"	*1	.1		3		"/	
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THE REPORT OF DATE SCRIPTION 20 P. C. C. **SCRIPTION** XORE NOTION 1.11 1/2 SRCF REV 1/88 5 1988 F.E.C. 71.7 **♀** ! 1177383558 1177383575 1177383566 772383584 177383593 MULTIPLE PACKAGE SERVICE PAYMENT | But Sunder \$ Sender's Federal Express Account Nu 2 COUNTE-PAK 7 C Company From (Your Name) Please Print A D OVERMENT 3 OFFERMANT 8 1 DANGAUTY 1 6 DEFENDE Street Address S STANBARD 10 STANDARD 10 STANDARD STAN YOUR DILLING REFERENCE MIST ۱ .--* Declared Value Linui \$100 □ .} Carrida AT Tal. SERVICES F 477.543 ŏ OH Processor's Feet's Acrt. No. MATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE.) PH TWO AMONG FOR DOMESTIC SUPPRIESTS WITHIN HE CONTINUED IN T.A. ALASEA AND MANUAL ORD THE MITTING WITH ALL OF THE LINE STALL (ALL OF THE LINE STALL (ALL). 3 ם ق 12 Marie Marie -Ō 1 MALD FOR PICK-UP ***** 5 COMPLIANT ABBREALANCE SUBNICE (CSS) 7 O OTHER SPECIAL SERVICE 6 D 207 EE ... 3 BELIVER SATURDAY Detaera and Seccial Handenic Bill 3rd Party FedEa Acct No DELIVER WEEKDAY Department/Floor No ZNP Huques Received At 1 D Regular Stop 2 D On Call Stop 8 S.C. 3 D 4 D S
Drop Bou B.S.C. SI
FEDEX Corp. Employee No. Date/Time for FEDEX Use But Creeze Card LBS LBS 188 SEL Exact Street Address (the Count Between to P.B. Bases or P.B. . Zip Codes.) To (Recipient's Name) Please Print \$ 1 W NOLD FOR PICK-OP, Print FEDEX Address Nave Ç. We will find the responsibility for any is used in course of \$100 per parameter whether the result of keys chartage, theory or that children unitarity and hapter and the court of the cour Use of this widel considering your appression to be true in vision that is not not exhibited an Out-Custost Service (cuspic with his acceptable, upon impact in the st. Services of sentiles a copy of this widel for buffer advantable. SERVICE COMPATIONS, BECLARED VALUE
AND LIMIT OF LIABILITY PACKAGE TRACKING NUMBER SENDER'S COPY ZIP Harquired ZHP Flaquete Department/Floor No. PART #11800 O 1 Total Charges Declared Value Charge 009 Base Charges Federal Express Use 1

NOS COM GRATION AND 301	BSIDIAKIES	TELECON NOTE
CONTROL NO. F4-8803-58	DATE: May 9, 1988	TIME: 3:00 p.m.
DISTRIBUTION:		
Glass, E. H. Co. Landfill		
Cone Mills Corp White Oak Plant		
Cone Mills Corp White Oak Plant BETWEEN: Don Grubbs	OF: Guilford Co. Water Dept. Greensboro, N. C.	PHONE: (919) 373-2055
	Greensboro, N. C.	

The Guilford County Water Department obtains its water supply from Lake Townsend, Lake Higgins, and Lake Brandt. The county has two raw water lines; water from Lakes Brandt and Higgins is treated at Mitchell and water from Lake Townsend is treated at Townsend. Water from the different lines is probably combined somewhere in the distribution system; Mr. Grubbs said he would have to check pipeline maps to verify this. The water system has approximately 66,000 accounts (i.e., connections).

Inside the city limits of Greensboro, approximately 99.9% of the people are served by the county water system. Water is also provided by the county in its service areas outside the city limits; however, residents outside the city limits are not required to be hooked up to the water and sewer lines. Mr. Grubbs did not know how to find out which residents were not hooked up, other than going through individual account records.

From the dam at Lake Townsend, Guilford County's water service lines go south. Mr. Grubbs was not sure whether areas north of Guilford's service areas (i.e., south of Lakes Townsend and Jeannette) are on wells and septic tanks. Residences along service area boundary lines are served by county water. There are no other water service areas immediately north of Guilford County's water service areas; the next closest water service area to the north is located in Reidsville, in Rockingham County.

Lake Jeannette was formerly called Richland Lake, among other names. It is owned by the Cone Mills Corporation and has been developed by the company as a residential area. The residents are on Guilford County water.

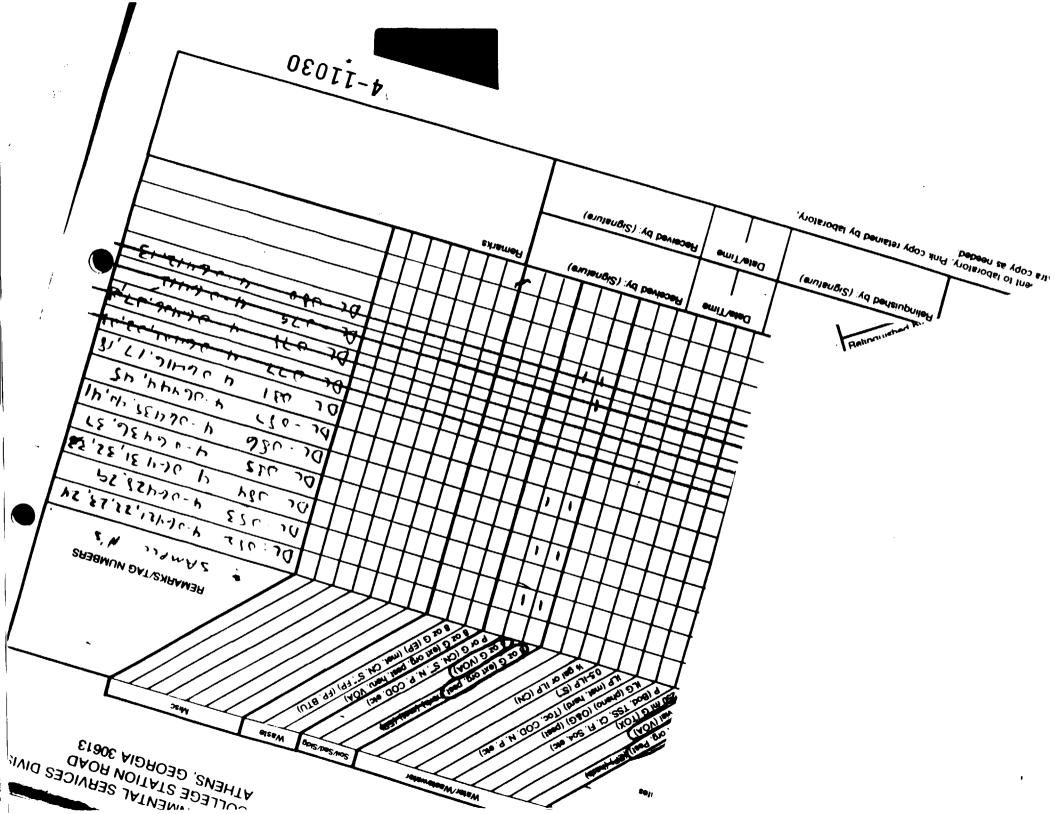
Groundwater wells in the Greensboro area are approximately 150 feet deep or deeper; Mr. Grubbs has a well that is approximately 360 feet deep and supplies good water. He did not know the depth of the water table.

NUS CORPORATION AND S	UBSIDIARIES	TELECON NOTE
CONTROL NO.	DATE: January 26, 1989	TIME: 0830
DISTRIBUTION:		
BETWEEN: Tom Alspaugh	OF: Cone Mills Corp.	PHONE: (919) 379-6579
AND: Doug Chatham	L	
DISCUSSION:		
Mr. Alspaugh said that the White	Oak Plant has been in operation since 18	896. He requested a copy of the report
for their files.		
ACTION ITEMS:		
will send the request for a copy of	of the report to the EPA contact with an	additional copy of the report.

RECEIPT FOR SAMPLES

ENVIRONMENTAL SERVICES DIVISION COLLEGE STATION ATHENS, GEORGIA 30613

PROJ. N		PROJ	ECT	NAME				Name of Faci	lity/Site							
88-60	4						→		CONE	Micus Cui	RP					
SAMPLE	RS: (81)	nature)	١	1		,		WHITE OAK PLANT								
	4	· /	المر	<u> </u>	das	73. Bo	uu	Facility/Site Location								
Split Samples Offered () Declined								2420 FAIRVIEW ST.								
					(TA	ccepted () Declined		Gré	ENSBURO, A	lc.					
CM-	SS DATE	TIME	COMP	GRAB	SPLIT SAMPLES	TAG NU	MBERS .		STATION D	ESCRIPTION	NO OF CON- TAINERS	REMARKS				
521-01	she	1025		X	YQ \$	4-06-121 22, 2	3 24 2526 27	W. Buffah	Creek	Upgradient	6	TAG #'S ARC EPA NUS				
50-01				X		4-06427 1		, ,,	**	• • • • • • • • • • • • • • • • • • • •	3	Use statia location				
54-02	3/22	1130		X		-	32,37,34,35	" "	41	Midstren	6	for sample identity				
20-03	8/22	135		x	ves	4-16436	37 38	41 *1	• •	"	3					
SW-03	8/22	1215		X	y = 5	4-064314	10,41,4443	**	••	Downgradia1	3	11				
50-03	8/22	1220		7	V <2	4-06444.	45.46	11 "	• •	//	3	"/				
							···									
). V									
									·							
Transfe	rred by:	(Signati	ure)			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1'	Received by:			Telephone				
					ech	X			M	my land	>	919 379-6226				
Date		-).	10	L	\mathcal{O}	Time	R * *	tle		Date	Time				
		8	127	1/5	8		/30	0	ENVI	kus,	8-20-8	1300				



HAZARD RANKING SYSTEM ECCPING BUMMARY

FOR

CONE MILLS CORP., WHITE OAK PLANT EPA SITE NUMBER NID000776914 GREENSBORD GUILFORD COUNTY, NC EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY D.M. CHATHAM
OF NUS CORPORATION
ON 01/13/89

DATE OF THIS REPORT: 01/13/89
DATE OF LAST MODIFICATION: 01/13/89

GROUNT WATER ROUTE SCORE	-	
SURFACE WATER ROUTE SCORE		0.00
AIR ROUTE SCORE	12	0.00
1000 period with the signal balled before these severe severe with balled balle		
MIGRATION SCORE	3	0.00



HRS GROUND WATER ROUTE SCORE

	•					
	CATEGORY/FACTOR		RAW DAT	A	ASM. VALUE	SCOPE
1.	OBSERVED RELEASE		NO	urt =	Ō	·
	ROUTE CHARACTERIST	ICS	(* 1864 and San an 1864 (Printer or to the second like the control of the co
	DEPTH TO WATER TABL DEPTH TO BOTTOM OF			FEET		
	DEPTH TO AQUIFER O	F CONCERN	9	FEET	3	ć
	PRECIPITATION EVAPORATION			INCHES		
	NET PRECIPITATION		3,5	INCHES	1	1
	PERMEABILITY		1.0X10-6	CM/SEC	1	1
	PHYSICAL STATE				3	् उ
	TOTAL ROUTE CHARACT	reristics s	CORE:			11
3.	CONTAINMENT	angang angar garantar room normalis angang bersahada			3	3
.	WASTE CHARACTERIST	ics	The state of the course of the state of the			
	TOXICITY/FERSISTEN	CE:				O
	WASTE QUANTITY CUI DRU GAI TOM	IMS _LONS	0 0 0			
	TO	ΓAL	0	CU. YD	s o	O
	TOTAL WASTE CHARACT	ERISTICS S	CORE:			Ō
5.	TARGETS	-	· · · · · · · · · · · · · · · · · · ·			
	GROUND R USE				3	φ
	DISTANCE TO NEAREST AND TOTAL POPULATION SE NUMBER OF HOUSES NUMBER OF PERSON NUMBER OF CONNECT NUMBER OF IRRIGA	ERVED S NS CTIONS	10000 MATRIX VA 735 0 735 0		1.2 S	12
	TOTAL TARGETS SCORE	:				21
*******	/5.5% (15.1%)	LIATETE ESCHUL				

GROUND WATER ROUTE SCORE (Sgw) = 0.00

HRS SURFACE WATER ROUTE SCORE

	CATEGORY/FACTOR	RAW DATA	ASN. VALUE	8 0075 E
1.	OBSERVED RELEASE	NO	O	e i angara mang merupakan salah salah salah salah salah salah salah salah salah salah salah salah salah salah s Zeri
	ROUTE CHARACTERISTICS			With the Control of t
	SITE LOCATED IN SURFACE WATER SITE WITHIN CLOSED BASIN FACILITY SLOPE INTERVENING SLOPE	NO NO 6.7 % 7.5 %	2	Z
	24-HOUR RAINFALL	2.7 INCHES	2	5)
	DISTANCE TO DOWN-SLOPE WATER	400 FEET	3	Ś
	FHYSICAL STATE	3		3
	TOTAL ROUTE CHARACTERISTICS SC	ORE:		13
3.	CONTAINMENT	3	anni an ang kaman alika 111 an minggah Pangar tamigan anggan ang pang kanglalangan	₁ 3
4 .	WASTE CHARACTERISTICS	4 Parades (1970) 1970 1970 1970 1970 1970 1970 1970 1970		
	TOXICITY/PERSISTENCE:			V_{μ}^{\prime}
	WASTE QLANTITY CUBIC YDS DRUMS GALLONS TONS	0 0 0 0		
	TOTAL	o cu. yn	s o	Ō
	TOTAL WASTE CHARACTERISTICS SC	ORE:		Q
5.	TARGETS		ny titokany fin ny makiningan'i Eugened nya Admininganina yang binang binang di Gram — ny	aan dhaayaarida uu aad baraay ghii ayaan-uun aayo baa o
	SURFACE WATER USE		Ō	0
	DISTANCE TO SENSITIVE ENVIRONM COAST WETLANDS FRESH WETLANDS CRITICAL HABITAT	ENTS NONE NONE NONE	0	0
	DISTANCE TO STATIC WATER DISTANCE TO WATER SUPPLY INTAKE AND TOTAL POPULATION SERVED NUMBER OF HOUSES NUMBER OF PERSONS NUMBER OF CONNECTIONS NUMBER OF IRRIGATED ACRES TOTAL TARGETS SCORE:	> 3 MILES E > 3 MILES MATRIX VALUE 0 0 0 0 0 0	0	o
		Migrae de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 de 18 d	agelleria generaligi di trapitagi dere maj ferri agellegado te min mad ter-et-un ere te	Section 19 Section 19

SURFACE WATER ROUTE SCORE (Ssw) = 0.00

NZA

HRS AIR ROUTE SCORE

	CATEGORÝ/FACTOR	र	RAW DATA	ASN. VALUE	SCORE	
1.	OBSERVED RELEASE		NO	<i>(</i>)	:	
<u></u>	WASTE CHARACTER	KISTIC3				
	REACTIVITY:					
	INCOMPATIBILITY	(MATRIX VALUE		
	TOXICITY					
	WASTE QUANTITY	CUBIC YARDS DRUMS GALLONS TONS				
		TOTAL				
	TOTAL WASTE CHA	RACTERISTICS S	CORE:		N/A	
3.	TARGETS				·.	
	FORULATION WITH O to 0.25 mi O to 0.50 mi O to 1.0 mil O to 4.0 mil	1e 1e e	US			
	DISTANCE TO SEN COASTAL WETL FRESH-WATER CRITICAL HAB	ANDS WETLANDS	IMENTS			
	DISTANCE TO LAN COMMERCIAL/I PARK/FOREST/	NDUSTRIAL				

AIR ROUTE SCORE (Sa) = 0.00

AGRICULTURAL LAND
PRIMARMLAND
HISTER SITE WITHIN VIEW?

TOTAL TARGETS SCORE:

HAZARD RANKING SYSTEM SCORING CALCULATIONS FOR SITE: CONE MILLS CORP., WHITE OAK PLANT AS OF 01/13/89

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS 11
CONTAINMENT X 3
WASTE CHARACTERISTICS X 0
TARGETS X 21

= 0 /57,330 X 100 = 0.00 = 5_a

SURFACE WATER ROUTE SCORE

RQUTE_CHARACTERISTICS 13
CONTAINMENT X 3
WASTE CHARACTERISTICS X 0
TARGETS X 0

= 0 /64,350 X 100 = 0.00 = S_{=w}

AIR ROUTE SCORE

OBSERVED RELEASE 0 /35,100 X 100 = 0.00 = S_{axr}

SUMMARY OF MIGRATION SCORE CALCULATIONS

	<u> </u>	5 =
GROUND WATER ROUTE SCORE (S.)	0.00	0.00
SURFACE WATER ROUTE SCORE (S)	0.00	0.00
AIR ROTE SCORE (Sair)	0.00	0.00
5° gw + 5° gw + 5° gair		Oa (n)
J (Seg. + Seg. + Seg.)		0,00
Sm = J (Sfgw + Sfw + Sfw)/1.73		$\{(j)_{j=0},(j)_{j\in J}\}$

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613



*****MEMORANDUM****

DATE: 12/03/88

SUBJECT: Results of Metals Analysis;

88-584 CONE MILLS WHITE OAK GREENSBORO NC

GREENSBORO NC CASE NO: 10258

FROM: Robert W. Knight

Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

12/02/88 METALS DATA REPORT

** STAT	* * * * * * *		29188 NUMBER:	* * * * SAMPLE		* * * * * Surfacewa	CITY:	ELEM: NSF GREENSBORO CTION START: NUMBER: LO82	COLLECTED BY: A SI ST: NC	PAUGH ************************************	* * * * *** ** ** **
*** * * * * * * * * * * * * * * * * *	ALUMINUM ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CALCIUM CHROMIUM COBALT COPPER IRON LEAD MAGNESIUM	* * * * * * * ANALYTICAL	* * * * RESULTS	* * * *	* * * 1	3 2 4 9 2 1 N. 2	ม 900ช . 70	MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * TS	* * * * ***

REMARKS

REMARKS

FOOTNOTES

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

12/02/88 METALS DATA REPORT

*** * * * * * * * * * * * * * * * * *	WHITE OAK	* * * * * * * * * * * * * * * * * * *
MG/KG 14000 ALUMINUM 17U ANTIMONY 1.7U ARSENIC 84 BARIUM .23U BERYLLIUM 1.1U CADMIUM 1500 CALCIUM 40J CHROMIUM 13 COBALT 86 COPPER 21000 IRON 57 LEAD 2100 MAGNESIUM	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

12/02/88 METALS DATA REDORT

** PROJECT NO. 88-5 ** PROJECT NO. 88-5 ** SOURCE: CONE MIL ** STATION ID: SW-C ** CASE NUMBER: 102	LS WHITE OAK	CIT COL	PROBLEM: NSF COLLECTED Y: GREENSBORO LECTION START: 08/22/88	* * * * * * * * * * * * * * * * * * *
### # # # # # # # # # # # # # # # # #	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	MANGANESE MERCURY NICKEL POTASSIUM SELENIUM SILVER SODIUM THALLIUM TIN VANADIUM ZINC	* * * * * * * * * * * * * * * * * * *

REMARKS

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REMARKS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

EPA-REGION IV ESD, ATHENS, GA. 12/02/88 METALS DATA REPORT

*** * * * * * * * * * * * * * * * * *	S WHITE OAK	* * * * * * * * * * * * * * * * * * *
### # # # # # # # # # # # # # # # # #	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

12/02/88 METALS DATA REPORT

** * * * * * * * * * * * * * * * * * *	SAS NUMBER:	CITY: GREENSBORO COLLECTION START: MD NUMBER: LO86		*** ** ** ** **
### # # # # # # # # # # # # # # # # #	ANALYTICAL RESULTS	 G/L MANGANESE R MERCURY NICKEL D POTASSIUM SELENIUM SILVER DO SODIUM	ANALYTICAL RESULTS	***

REMARKS

FOOTNOTES

3000

MAGNESIUM

*TOUTNOTES***

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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REMARKS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

12/02/88

METALS DATA REPORT *** * * * * * * * * * * ** PROJECT NO. 88-584 ** SOURCE: CONE MILLS ** STATION ID: SD-03 ** CASE NUMBER: 10258	S WHITE OAK	CITY: GREENS	.BORO ST: NC .TART: 08/22/88 STOP: 0	* * * * * * * * * * * * * * * * * * *
*** * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	ANALYTICAL RESULTS IUM UM	* * * * * * * * * ***

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM

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EPA-REGION IV ESD. ATHENS. GA. 12/02/88 METALS DATA REPORT

PROJECT NO. 88-584 SAMPLE NO. 29194 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: A SPAUGH SOURCE: CONE MILLS WHITE OAK CITY: GREENSBORO ST: NC

STATION ID: TB-01 COLLECTION START: 08/22/88 STOP: 00/00/00 CASE NUMBER: 10258 SAS NUMBER: MD NUMBER: LOST

** ** UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

ALUMINUM 170U 20Ū **MANGANESE** 58UJ ANT I MONY 2UR MERCURY 6Ŭ` ARSENIC 16U NICKEL 11U BARIUM 880U POTASSIUM BERYLLIUM 4U SELENIUM 10 40 CADMIUM CALCIUM 200 SILVER 4100 29000 SODIUM CHROMIUM 7U 1.7Û THALL IUM COBALT 80 NA TIN 22UJ COPPER 140 VANADIUM IRON 30U 200 ZINC 10 LEAD 500U MAGNESIUM

REMARKS

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REMARKS

FOOTNOTES

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613

*****MEMORANDUM****

DATE: 11/18/88

Results of Purgeable Organic Analysis; 88-607 CONE MILLS-WHITE OAK GREENSBORO NC SUBJECT:

FROM: Tom B. Bennett, fr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

PURGEABLE ORGANICS DATA REPORT	ELM MEGION IN EDD, MINEND, GM.	1:7:7700
*** * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
** SOURCE: CONE MILLS-WHITE OAK	CITY: GREENSBORO ST:	NC **
** STATION ID: SD-01 N BUFFALO CK UPGRAD	COLLECTION START: 08/22/88 1030	D STOP: 00/00/00 **
**	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
UG/KG ANALYTICAL RESULTS	UG/KG ANALYTICAL RI	
19U CHLOROMETHANE 19U VINYL CHLORIDE 19U BROMOMETHANE 19U CHLOROETHANE 19U CHLOROFLUOROMETHANE 19U TRICHLOROFLUOROMETHANE 10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE	19U CIS 1.3-DICHLOROPROPENE	
190 VINYL CHLORIDE	1900 METHYL ISOBUTYL KETONE	
19U BROMOME THANE	11J TOLUENE 19U TRANS-1,3-DICHLOROPROPENE	
19U CHLCRGETHANE 19U TRICHLOROFLUOROMETHANE	190 TRANSTI, 3-DICHLOROPROPENE 190 1, 1, 2-TRICHLOROETHANE	
190 1,1-DICHLOROETHENE(1.1-DICHLOROETHYLENE) 190 TÉTRACHLOROETHENE (TETRACH	LORGETHYLENE)
1909 ACETONE	190 I, 3-DITHEURUPHUPANE	
1900 CARBON DISULFIDE 190 METHYLENE CHLORIDE	1900 METHYL BUTYL KETONE	
190 METAVLENE CALORIDE 190 TRANS-1, 2-DICHLOROETHENE	19U DIBROMOCHLOROMETHANE 19U CHLOROBENZENE	
19U 1.1-DICHLOROETHANE	19U 1,1,1,2-TETRACHLOROETHANE	
1900 VÍNYL ACETATÉ	19U ETHYL BENZENE	
19U CIS-1, 2-DICHLOROETHENE	19U (M- AND/OF P-)XVI ENE	
19U 2,2-DÌCHLOROPROPANE 22J METHYL ETHYL KETONE	190 O-XYLENE 190 STYRENE	
19U BROMOCHLOROMETHANE	19U BROMOFORM	
19U CHLOROFORM	19U BROMOBENZENE	
19U 1.1.1-TRICHLOROETHANE	19U 1,1.2.2-TETRACHLOROETHANE	
19U 1,1-DICHLOROPROPENE 19U CARBON TETRACHLORIDE	19U 1,2,3-TRICHLOROPROPANE 13U 0-CHLOROTOLUENE	
19U 1, 2-DICHLOROETHANE	130 P-CHLOROTOLUENE	
190 BÉNZENE	190 1.3-DICHLOROBENZENE	
19U TRICHLOROETHENE(TRICHLOROETHYLENE)	19U 1,4-DICHLOROBENZENE	
19U 1,2-DICHLOROPROPANE 19U DIBROMOMETHANE	19U 1,2-DICHLOROBENZENE 29.0 PERCENT MOISTURE	
19U BROMODICHLOROMETHANE	23.0 PENCENT MOISTONE	

REMARKS

REMARKS

FOOTNOTES

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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

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PURGEABLE ORGANICS DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM
SOURCE: CONE MILLS-WHITE OAK
STATION ID: SD-02 N BUFFALO CK MIDSTREAM

PROG ELEM: NSF COLLECTED BY: A SPAUGH
CITY: GREENSBORO
ST: NC
COLLECTION START: 08/22/88 1135 STOP: 00/00/00
* *
                                                                                                                                   **
                                                                                                                                  **
**
                                                                                                                                   * *
ANALYTICAL RESULTS
   UG/KG
                                                                      UG/KG
                                                                                         ANALYTICAL RESULTS
                                                                            CIS-1,3-DICHLOROPROPENE
METHYL ISOBUTYL KETONE
   210
210
         CHLOROMETHANE
                                                                       2111
          VINYL CHLORIDE
                                                                      2100
                                                                             TOLUENE
    210
          BROMOMETHANE
                                                                      3.6J
                                                                             TRANS-1, 3-DICHLOROPROPENE
1, 1, 2-TRICHLOROETHANE
    2111
          CHLOROETHANE
                                                                       210
    210
          TRICHLOROFI HOPOMETHANE
                                                                       210
          1,1-DICHLORGETHENE(1.1-DICHLORGETHYLENE)
                                                                             TETRACHLOROETHENE (TETRACHLOROETHYLENE)
    210
                                                                       210
   2100
          ACETONE
                                                                       2111
                                                                             1,3-DICHLOROPROPANE
   2100
          CARBON DISULFIDE
                                                                             METHYL BUTYL KETONE
DIBROMOCHLOROMETHANE
                                                                      2100
          METHYLENE CHLORIDE
    21U
                                                                       210
          TRANS-1, 2-DICHLOROETHENE
1, 1-DICHLOROETHANE
    210
                                                                       210
                                                                             CHLOROBENZENE
                                                                             1,1,1,2-TETRACHLOROETHANE
ETHYL BENZENE
                                                                       210
   5.4J
   2100
          VINYL ACETATE
                                                                       210
          CIS-1 2-DIGHLORGETHENE
                                                                             (M- AND/OR P-)XYLENE
    210
                                                                       210
                                                                       21Ū
          2,2-DICHLOROPROPANE
                                                                             O-XYLENE
    210
          METHYL ETHYL KETONE
BROMOCHLOROMETHANE
   210U
                                                                       210
                                                                             STYRENE
                                                                             BROMOFORM
    210
                                                                       21U
          CHLOROFORM
                                                                       210
                                                                             BROMOBENZENE
    210
          1,1,1-TRICHLOROETHANE
                                                                             1,1,2,2-TETRACHLOROETHANE
    210
                                                                       21U
          1.1-DICHLOROPROPENE
    210
                                                                       21U
                                                                             1,2,3-TRICHLOROPROPANE
          CARBON TETRACHLORIDE
                                                                             O-CHEOROTOLUE!'E
    210
                                                                       210
    210
          1,2-DICHLORDETHANE
                                                                       21U
                                                                             T-CHLOROTOLUENE
                                                                             1,3-DICHLOROBENZENE
    210
          BÉNZENE
                                                                       210
          TRICHLOROETHENE(TRICHLOROETHYLENE)
                                                                       210
                                                                             1.4-DICHLOROBENZENE
    210
    21U
          1.2-DICHLOROPROPANE
                                                                       210
                                                                             1.2-DICHLOROBENZENE
          DIBROMOMETHANE
                                                                             PERCENT MOISTURE
    210
                                                                     24.0
    210
          BROMODICHLOROMETHANE
```

REMARKS

***REMARKS-**

FOOTNOTES

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

^{*}A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

11/17/88

FURGEABLE ORGANICS DATA REPORT	LFA-REGION IV ESD, ATRENS, CA.	11/1/00
	CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1220 S	AUGH **
UG/KG ANALYTICAL RESULTS	UG/KG ANALYTICAL RESULT	
CHLOROMETHANE ON VINYL CHLORIDE ON BROMOMETHANE ON CHLOROETHANE ON TRICH OROF LUCROMETHANE ON TRICH OROF LUCROMETHANE ON ACETONE ON ACETONE ON METHYLENE CHLORIDE ON METHYLENE CHLORIDE ON TRANS-1.2-DICHLOROETHENE ON TRANS-1.2-DICHLOROETHENE ON TRANS-1.2-DICHLOROETHENE ON TRANS-1.2-DICHLOROETHENE ON CIS-1.2-DICHLOROETHENE ON CIS-1.2-DICHLOROPANE ON METHYL ETHYL KETONE ON METHYL ETHYL KETONE ON BROMOCHLOROMETHANE ON T.1-TRICHLOROETHANE ON T.1-TRICHLOROETHANE ON T.1-DICHLOROPANE ON TETRACHLORIDE ON TETRACHLORIDE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROETHANE ON TRICHLOROPROPANE ON TRICHLOROMETHANE	20U CIS 1,3-DICHLOROPROPENE 200U METHYL ISOBUTYL KETONE 8.0J TOLUENE 20U TRANS-1,3-DICHLOROPROPENE 1,1,2-TRICHLOROETHANE 20U TÉTRACHLOROETHENE(TETRACHLOROI 20U 1,3-DICHLOROPROPANE 20U DIBROMOCHLOROMETHANE 20U CHLOROBENZENE 20U CHLOROBENZENE 20U CHLOROBENZENE 20U CHLOROBENZENE 20U CHLOROBENZENE 20U CHLOROBENZENE 20U STYRENE 20U STYRENE 20U STYRENE 20U STYRENE 20U BROMOFORM 20U BROMOFORM 20U BROMOFORM 20U BROMOFORM 20U HOLOROTOLUENE 20U 1,2,3-TRICHLOROPROPANE 20U 1,2,3-TRICHLOROBENZENE 20U 1,3-DICHLOROBENZENE 20U 1,4-DICHLOROBENZENE 20U 1,2-DICHLOROBENZENE 20U 1,2-DICHLOROBENZENE 20U 1,2-DICHLOROBENZENE	ETHYI FNE)

REMARKS

REMARKS

FOOTNOTES

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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613

*****MEMORANDUM*****

DATE: 10/11/88

Results of Pesticide/PCB Analysis; 88-607 CONE MILLS-WHITE OAK GREENSBORO NC SUBJECT:

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

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PESTICIDES/PCB'S DATA REPORT
*** PROJECT NO. 88-607 SAMPLE NO. 29090 SAMPLE TYPE: AMBWA

** SOURCE: CONE MILLS-WHITE OAK

** STATION ID: SW-01 N BUFFALO CK UPGRAD

** COLLECTION START: 08/22/88 1025 STOP: 00/00/00 **
* *
                                                                                                                                                        * *
UG/L
                          ANALYTICAL RESULTS
                                                                                   UG/L
                                                                                                         ANALYTICAL RESULTS
                                                                                 0.72U PCB-1232 (AROCLOR 1232)
0.72U PCB-1248 (AROCLOR 1248)
0.44U PCB-1260 (AROCLOR 1260)
0.72U PCB-1016 (AROCLOR 1016)
  O.029U ALDRIN
  0.017U HEPTACHLOR
  0.022U HEPTACHLOR EPOXIDE
  0.0250
            ALPHA-BHC
           BETA-BHC
                                                                                          TOXAPHENE
                                                                                   2.10
   O. O24U GAMMA-BHC (LINDANE)
                                                                                          CHLORDENE
  0.050U DELTA-BHC
0.026U ENDOSULFAN I (ALPHA)
                                                                                         ALPHA-CHLORDENE
                                                                                          BETA CHLORDENE /2
GAMMA-CHLORDENE /2
  0.033U DIELDRIN
  0.048U 4,4'-DDT (P,P'-DDT)
0.031U 4,4'-DDE (P,P'-DDE)
0.054U 4,4'-DDD (P,P'-DDD)
                                                                                          1-HYDROXYCHLORDENE
                                                                                         GAMMA-CHLORDANE
TRANS-NONACHLOR
ALPHA-CHLORDANE
                                                                                                               /2
/2
   0.0290
           ENDRIN
                                                                                                              /2
/2
   0.0390
                                                                                          CIS-NONACHLOR
            ENDOSULFAN II (BETA)
           ENDOSULFAN SULFATE
CHLORDANE (TECH. MIXTURE) /1
                                                                                          OXYCHLORDANE (OCTACHLOREPOXIDE) /2
   0.0540
   0.0270
                                                                                0.069U METHOXYCHLOR
    0.72U PCB-1242 (AROCLOR 1242)
0.44U PCB-1254 (AROCLOR 1254)
                                                                                O 074U ENDRIN KETONE
    0.72U PCB-1221 (AROCLOR 1221)
```

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

^{*}K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

```
PESTICIDES/PCB'S DATA REPORT
SOURCE: CONE MILLS-WHITE OAK
STATION ID: SW-02 N BUFFALO CK MIDSTREAM
                                                                           CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1130 STOP: 00/00/00
**
**
                                                                                                                                           **
                                                                                                                                           **
UG/L
                         ANALYTICAL RESULTS
                                                                           UG/L
                                                                                                ANALYTICAL RESULTS
                                                                          0.69U PCB-1232 (AROCLOR 1232)
0.69U PCB-1248 (AROCLOR 1248)
0.41U PCB-1260 (AROCLOR 1260)
0.69U PCB-1016 (AROCLOR 1016)
  0.063U ALDRIN
  0.016U HEPTACHLOR
  O. 021U HEPTACHLOR EPOXIDE
  0.0280
          ALPHA-BHC
  0.035U BETA-BHC
0.027U GAMMA-BHC (LINDANE)
                                                                           2.10 TOXAPHENE
                                                                             -- CHLORDENE /2

-- ALPHA-CHLORDENE /2

-- BETA CHLORDENE /2
  O. 051 J DELTA-BHC
  0.023U ENDOSULFAN I (ALPHA)
  0.031U DIELDRIN
                                                                                  GAMMA-CHLORDENE
  0.048U 4,4'-DDT (P,P'-DDT)
0.049U 4,4'-DDE (P,P'-DDE)
0.055U 4,4'-DDD (P,P'-DDD)
                                                                                  1-HYDROXYCHLORDENE
                                                                                  GAMMA-CHLORDANE
TRANS-NONACHLOR
  0.035U
          ENDRIN
                                                                                  ALPHA-CHLORDANE
  0.0420
          ENDOSULFAN II (BETA)
                                                                                  CIS-NONACHLOR
  0.0520
          ENDOSULFAN SULFATE
                                                                                  OXYCHLORDANE (OCTACHLOREPOXIDE) /2
   0.280 CHLORDANE (TECH. MIXTURE) /1
0.690 PCB-1242 (AROCLOR 1242)
0.410 PCB-1254 (AROCLOR 1254)
0.690 PCB-1221 (AROCLOR 1221)
                                                                         0.083U METHOXYCHLOR
                                                                         0.078U ENDRIN KETONE
```

REMARKS

REMARKS

FOOTNOTES

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^{1.} WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

```
PESTICIDES/PCB'S DATA REPORT
** PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA

** SOURCE: CONE MILLS-WHITE OAK

** STATION ID: SW-03 N BUFFALO CK DOWNGRAD

** STATION ID: SW-03 N BUFFALO CK DOWNGRAD

** OCCUPATION START: 08/22/88 1215 STOP: 00/00/00
                                                                                                                                          **
                                                                                                                                          * *
                                                                                                                                          **
UG/L
                         ANALYTICAL RESULTS
                                                                                                ANALYTICAL RESULTS
                                                                           UG/L
  0.049U ALDRIN
0.018U HEPTACHLOR
                                                                          0.80U PCB-1232 (AROCLOR 1232)
0.80U PCB-1248 (AROCLOR 1248)
  0.019U HEPTACHLOR EPOXIDE
                                                                          0.41U PCB-1260 (AROCLOR 1260)
  0.0500 ALPHA-BHC
                                                                                 PCB-1016 (AROCLOR 1016)
                                                                          0.800
  0.039U BETA-BHC
                                                                           2.10
                                                                                 TOXAPHENE
                                                                                 CHLORDENE /2
ALPHA-CHLORDENE /2
  O. 048U GAMMA-BHC (LINDANE)
  0.051U DELTA-BHC
  0.0260 ENDOSULFAN I (ALPHA)
0.0350 DIELDRIN
                                                                                 BETA CHLORDENE /2
GAMMA-CHLORDENE /2
                                                                                 1-HYDROXYCHLORDENE
GAMMA-CHI OPPANIE
  0.046U 4.4'-DDT (P,P'-DDT)
0.050U 4.4'-DDE (P,P'-DDE)
0.057U 4.4'-DDD (P,P'-DDD)
                                                                                  TRANS-NONACHLOR
                                                                                                     72
  0.039U ENDRIN
                                                                                 ALPHA-CHLORDANE
                                                                                                     /2
  0.045U ENDOSULFAN II (BETA)
                                                                             -- CIS-NONACHLOR
   0.27U ENDOSULFAN SULFATE

0.27U CHLORDANE (TECH. MIXTURE) /1

0.80U PCB-1242 (AROCLOR 1242)

0.41U PCB-1254 (AROCLOR 1254)
  0.045u
                                                                                 OXYCHLORDANE (OCTACHLOREPOXIDE) /2
                                                                         0.065U METHOXYCHLOR
                                                                         0.071U ENDRIN KETONE
   0.80U PCB-1221 (AROCLOR 1221)
```

REMARK5

REMARKS

FOOTNOTES

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C-CONFIRMED BY GC/MS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS . 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

```
PESTICIDES/PCB'S DATA REPORT
** PROJECT NO. 88-607 SAMPLE NO. 29096 SAMPLE TYPE: BLKWA

** SOURCE: CONE MILLS-WHITE OAK

** STATION ID: TB-01 TRIP BLANK

PROG ELEM: NSF COLLECTED BY: A SPAUGH
CITY: GREENSBORO ST: NC
COLLECTION START: 08/22/88 1245 STOP: 00/00/00
                                                                                                                                        **
                                                                                                                                        * *
                                                                                                                                        **
                                                                                                                                        **
UG/L
                       ANALYTICAL RESULTS
                                                                          UG/L
                                                                                              ANALYTICAL RESULTS
                                                                         0.53U PCB-1232 (AROCLOR 1232)
0.53U PCB-1248 (AROCLOR 1248)
0.41U PCB-1260 (AROCLOR 1260)
  O.O21U ALDRIN
  0.014U HEPTACHLOR
  0.018U HEPTACHLOR EPOXIDE
  0.025U ALPHA-BHC
                                                                                PCB-1016 (AROCLOR 1016)
                                                                         0.530
  0.031U BETA-BHC
                                                                          2.10
                                                                                TOXAPHENE
  O. 024U GAMMA-BHC (LINDANE)
                                                                                CHLORDENE
                                                                                ALPHA-CHLORDENE
  0.030U DELTA-BHC
                                                                                BETA CHLORDENE /2
  0.019U ENDOSULFAN I (ALPHA)
                                                                                GAMMA-CHLORDENE /2
1-HYDROXYCHLORDENE /2
GAMMA-CHLORDANE /2
TRANS-NONACHLOR /2
  0.033U DIELDRIN
  0.046U 4,4'-DDT (P,P'-DDT)
0.031U 4,4'-DDE (P,P'-DDE)
0.044U 4,4'-DDD (P,P'-DDD)
  O. 039U ENDRIN
                                                                                ALPHA-CHLORDANE
  0.0350
          ENDOSULFAN II (BETA)
                                                                                CIS-NONACHLOR
                                                                                OXYCHLORDANE (OCTACHLOREPOXIDE) /2
  0.0610
          ENDOSULFAN SULFATE
                                                                        0.065U METHOXYCHLOR
   0.180
          CHLORDANE (TECH. MIXTURE) /1
   0.53U PCB-1242 (AROCLOR 1242)
0.41U PCB-1254 (AROCLOR 1254)
0.53U PCB-1221 (AROCLOR 1221)
                                                                        0.071U ENDRIN KETONE
```

REMARKS

REMARKS

FOOTNOTES

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1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613

****MEMORANDUM*****

DATE: 10/04/88

SUBJECT: Results of Extractable Organic Analysis;

CONE MILLS-WHITE OAK GREENSBORO NC 88-607

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

10/03/88

EXTRACTA	LE ORGANICS DATA REPORT	2.77.712.010.11.20.07.77		10,00,00
	ECT NO. 88-607 SAMPLE NO. 29090 SICE: CONE MILLS-WHITE OAK TON ID: SW-01 N BUFFALO CK UPGRAD			**
*** # * * * UG/L	ANALYTICAL RESULTS	* * * * * * * * * * * * * * UG/I	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * *
100 100 100 100 100 100 100 100 100	ANALYTICAL RESULTS BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL) ETHER N-NITROSODI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE BIS(2-CHLOROETHOXY) METHANE 1, 2, 4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROANILINE HEXACHLOROBUTADIENE 2-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHYLENE 2, 6-DINITROTOLUENE 3-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE DIBENZOFURAN 2, 4-DINITROTOLUENE DIETHYL PHTHALATE FLUORENE 4-CHLOROPHENYL PHENYL ETHER 4-NITROANILINE N-NITROSODIPHENYLAMINE/DIPHENYLAMINE 4-BRÖMOPHENY PHENYL ETHER	1 1 1 1 2 2 2 1	FLUORANTHENE DU PYRENE DU BENZYL BUTYL PHTHALATE DU 3,3'-DICHLOROBENZIDINE DU BENZO(A)ANTHRACENE DU CHRYSENE DU BIS(2-ETHYLHEXYL) PHTHALATE DU DI-N-OCTYLPHTHALATE DU BENZO(B AND/OR K)FLUORANTHENE DU BENZO(B AND/OR K)FLUORANTHENE DU BENZO(GHI)PERYLENE DU DIBENZO(A, H)ANTHRACENE DU DIBENZO(A, H)ANTHRACENE DU PHENOL DU PHENOL DU 2-CHLOROPHENOL DU 2-CHLOROPHENOL DU 2-METHYLPHENOL DU 2-MITROPHENOL DU 2,4-DIMETHYLPHENOL DU 2,4-DIMETHYLPHENOL DU 2,4-DICHLOROPHENOL DU 2,4-FRICHLOROPHENOL DU 2,4-FRICHLOROPHENOL DU 2,4-FRICHLOROPHENOL DU 2,4-TRICHLOROPHENOL DU 2,3-4,6-TETRACHLOROPHENOL DU 2-METHYL-4,6-DINITROPHENOL DU 2-METHYL-4,6-DINITROPHENOL DU PENTACHLOROPHENOL	

REMARKS

REMARKS

^{***}FOOTNOTES***

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10/03/88 EXTRACTABLE ORGANICS DATA REPORT

**	E ORGANICS DATA REPORT * * * * * * * * * * * * * * * * * * *	LE TYPE: SEDIM PROG CITY: COLLE	ELEM: NSF COLLECTED BY: A SPAUGH : GREENSBORO ST: NC ECTION START: 08/22/88 1030 STOP:	** 00/00/00 **
UG/KG 1600U 1600U	ANALYTICAL RESULTS BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL) ETHER N-NITROSODI-N-PROPYLAMINE HEXACHLOROETHANE NITROBENZENE ISOPHORONE BIS(2-CHLOROETHOXY) METHANE 1,2,4-TRICHLOROBENZENE NAPHTHALENE 4-CHLOROBUTADIENE 2-METHYLNAPHTHALENE HEXACHLOROBUTADIENE 2-METHYLNAPHTHALENE 2-CHLORONAPHTHALENE 2-CHLORONAPHTHALENE 2-NITROANILINE DIMETHYL PHTHALATE ACENAPHTHENE JIBENZOFURAN 2,4-DINITROTOLUENE JIETHYL PHTHALATE FLUORENE 4-CHLOROPHENYL PHENYL ETHER 4-NITROSODIPHENYLAMINE/DIPHENYLAMINE 4-BAGMOPHENYL PHENYL ETHER 4-NITROSODIPHENYLAMINE/DIPHENYLAMINE 4-BAGMOPHENYL PHENYL ETHER HEXACHLOROBENZENE (HCB) PHENANTHRENE ANTHRACENE ANTHRACENE DI-N-BUTYLPHTHALATE	430J 390J 1600U 1600U 210J 270J 1600U	3,3'-DICHLOROBENZIDINE BENZO(A)ANTHRACENE CHRYSENE BIS(2-ETHYLHEXYL) PHTHALATE DI-N-OCTYLPHTHALATE BENZO(B AND/OR K)FLUORANTHENE BENZO—A-PYRENE INDENO (1,2,3-CD) PYRENE DIBENZO(A,H)ANTHRACENE BENZO(GHI)PERYLENE PHENOL 2-CHLOROPHENOL BENZYL ALCOHOL 2-METHYLPHENOL (3-AND/OR 4-)METHYLPHENOL 2,4-DIMETHYLPHENOL BENZOIC ACID 2,4-DIMETHYLPHENOL 4-CHLOROPHENOL 4-CHLORO-3-METHYLPHENOL 2,4,6-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,4,5-TRICHLOROPHENOL 2,3,4,6-TETRACHLOROPHENOL 2-METHYL-4,6-DINITROPHENOL 2-METHYL-4,6-DINITROPHENOL	

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

EPA-REGION IV ESD, ATHENS, GA. 10/03/88	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	10U FLUORANTHENE 10U PYRENE 10U BENZYL BUTYL PHTHALATE 10U 3,3'-DICHLOROBENZIDINE 10U BÉNZO(A)ANTHRACENE	100 CHRYSENE 100 BIS(2-ETHYLHEXYL) PHTHALATE 100 DI-N-OCTYLPHTHALATE 100 BENZO(B AND/OR K)FLUORANTHENE	100 INDENO (A.H.) PYRENE 100 IDBENZO (A.H.) ANTHRACENE 100 BENZO (GHI) PERYLENE	100 PHENOL 200 BENZYL ALCOHOL 100 2-METHYLPHENOL 100 (3-METHYLPHENOL	10U 2,4-01MFTHYLPHENOL 20U BENZOIC ACID 10U 2,4-DICHLOROPHENOL 10U 4-CHLORO-3-METHYLPHENOL	10U 2,4,6-TRICHLOROPHENOL 10U 2,4,5-TRICHLOROPHENOL 20U 2,4,DINITROPHENOL 20U 2,3,4,6-TETRACHLOROPHENOL 20U 2-METHYL-4,6-DINITROPHENOL 20U PENTACHLOROPHENOL
RACTABLE ORGANICS DATA REPORT	** * * * * * * * * * * * * * * * * * *	*** * * * * * * * * * * * * * * * * *	10U BIS(2-CHLOROETHYL) ETHER 10U BIS(2-CHLOROISOPROPYL) ETHER 10U N-NITROSODI-N-PROPYLAMINE 10U HEXACHLOROETHANE 10U NITROBOUZENE	10U BIS(2-CHLOROETHOXY) METHANE 10U 1,2,4-TRICHLOROBENZENE 10U NAPHTHALENE 10U 4-CH OROANII INF	100 HEXACHLOROBUTADIENE 100 2-METHYLNAPHTHALENE 100 HEXACHLOROCYCLOPENTADIENE (HCCP) 100 2-CHLORONAPHTHALFNF	100 2-NITROANILINE 100 DIMETHYL PHTHALATE 100 ACENAPHTHYLENE 100 2,6-DINITROTOLUENE 101 3-NITROANII NF	100 ACENAPHTHENE 100 DIBENZOFURAN 100 Z. 4-DINITROTOLUENE 100 DIETHYL PHTHALALE	100 FLUCKENE 100 4-CHLOROPHENYL PHENYL ETHER 100 4-NITROANILINE 100 N-NITROSCOIPHENYLAMINE/DIPHENYLAMINE 100 HEXACHLOROBENZENE (HCB) 100 PHENANIHRENE 100 PHENANIHRENE 100 DI-N-BUTYLPHIHALAIE

REMARKS

REMARKS

FOOTNOTES *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

10/03/88 EXTRACTABLE ORGANICS DATA REPORT

**	PROJ SOUR STAT	ION ID: SD-02 N	* * * * * * SAMPLE NO WHITE OAK BUFFALO CK	MIDSTREAM	 COLL	ECTION START:	08/22/88 1135 STOP	* * * * * * * * * * * * * * * * * * *	: :
)	1600U 1600U	BIS(2-CHLOROET BIS(2-CHLOROET BIS(2-CHLOROET) N-NITROSODI-N- HEXACHLOROETHAN NITROBENZENE ISOPHORONE BIS(2-CHLOROET) 1,2,4-TRICHLOR NAPHTHALENE 4-CHLOROANILIN HEXACHLOROGUTA 2-METHYLNAPHTH HEXACHLOROCYCI 2-CHLORONAPHTH 2-NITROANILINE 2-CHLORONAPHTHA CENAPHTHYLENE DIMETHYL PHTHA CENAPHTHENE DIBENZOFURAN 2,4-DINITROTOI DIETHYL PHTHAI FLUORENE 4-CHLOROPHENYI 4-NITROANILINI M-NITROSODIPHI 4-BROMOPHENYI HEXACHLOROBENE ANTHRACENE DI-N-BUTYLPHTI	CHYL) ETHER COPROPYL) ETH PROPYLAMINE INE CHOXY) METHAN ROBENZENE IE ADIENE JALENE JALENE LATE LUENE LATE PHENYL ETHE ENYLAMINE/DIF PHENYL ETHE ZENE (HCB) HALATE	ER CHCCP) ER CHENYLAMINE	1200, 960, 1600! 1	FLUORANTHENE PYRENE BENZYL BUTYL 3,3'-DICHLOR BENZO(A)ANTH CHRYSENE BIS(2-ETHYLH DI-N-OCTYLH BENZO(BAND/BENZO(A,H) BENZO(BAND/BENZO(A,H) BENZO(BHI)PE J DI-N-OCTYLH DENZO(BHI)PE J DI-N-OCTYLH DENZO(GHI)PE J DI-N-OCTYLH DENZO(GHI)PE J DI-N-OCTYLH DENZO(GHI)PE J 2-CHLOROPHEN D 2-METHYL D 2,4-DIMETHYL D 2,4-DIMETHYL D 2,4-DICHLORO D 2,4-S-TRICHL D 3,5-S-TRICHL D 3,5-S	PHTHALATE COBENZIDINE IRACENE IEXYL) PHTHALATE ITHALATE ITHALATE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) FLUORANTHENE INCR K) INCR K) FLUORANTHENOL INCR K) INCR K		

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10/03/88

EX	TRACTAB	LE ORGANICS DA	ATA REPORT					112110, -111				. 0, 00, 00
			* * * * * * 7 SAMPLE N 5-WHITE OAK N BUFFALO CK	* * * * * * 10. 29094 *: DOWNGRAD	* * * * * SAMPLE TYP	* * * * E: AMBWA	PRO CI COI			D BY: A SPAUGH ST: NC 8 1215 STOP		**
**	* * * * *	* * * * * * *	ANALYTICAL	RESULTS	* * * * *	* * * *	* * * * * UG/I	* * * *	ANALYT	* * * * * * * * * * * * * * * * * * *	* * * * *	* * * * ***
)	10U 10U 10U 10U 10U 10U 10U 10U 10U 10U	BIS(2-CHLORO) BIS(2-CHLORO) N-NITROSODI- HEXACHLOROET NITROBENZENE ISOPHORONE BIS(2-CHLORO) 1,2,4-TRICHLO NAPHTHALENE 4-CHLOROANIL HEXACHLOROBU 2-METHYLNAPH HEXACHLOROBU 2-MITROANILII DIMETHYL PHTH ACENAPHTHYLE 3-NITROANILII ACENAPHTHENE DIBENZOFURAN 2,4-DINITROT DIETHYL PHTH FLUORENE 4-CHLOROPHEN 4-CHLOROPHEN 4-CHLOROPHEN HEXACHLOROBU UNITROANILII N-NITROANILII N	ETHYL) ETHER ISOPROPYL) ET I-PROPYLAMINE HANE ETHOXY) METHA DROBENZENE INE IADIENE IADIENE IALENE ICLOPENTADIENE HALATE NE OLUENE ALATE VE HENYLAMINE/DI L PHENYL ETH NE HENYLAMINE/DI L PHENYL ETH NZENE (HCB) THALATE	ANE E (HCCP)	ΙΈ		10 10 10 10 10 11 11 11 11 12 11 11 12 11 11 12 11 12 12	00 3,3'-0 00 BÉNZO(00 CHRYSE 00 BIS(2- 00 DI-N-0 00 BENZO(00 DIBENZ 00 DIBENZ 00 BENZO(00 DIBENZ 00 BENZO(00 BENZO(00 DIBENZ 00 BENZO(00 DIBENZ 00 BENZO(00 DIBENZ 00 BENZO(00 DIBENZ 00 BENZO(00 DIBENZ	BUTYL PHTHAL ICHLOROBENZID A)ANTHRACENE NE ETHYLHEXYL) P CTYLPHTHALATE B AND/OR K)FL A-PYRENE (1,2,3-CD) P O(A,H)ANTHRAC GHI)PERYLENE ROPHENOL ALCOHOL YLPHENOL /OR 4-)METHYL OPHENOL C ACID CHLOROPHENOL GC ACID CHLOROPHENOL ICHLOROPHEN TRICHLOROPHEN NITROPHENOL	INE HTHALATE UORANTHENE YRENE ENE PHENOL IOL IOL IOH		

REMARKS

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EXTRACTABLE ORGANICS DATA REPORT
PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM
SOURCE: CONE MILLS-WHITE OAK
STATION ID: SD-03 N BUFFALO CK DOWNGRAD

PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM
CITY: GREENSBORO
CITY: GREENSBORO
ST: NC
COLLECTION START: 08/22/88 1220 STOP: 00/00/00
**
                                                                                                                                                                                                                          * *
* *
UG/KG ANALYTICAL RESULTS
                                                                                                                    UG/KG ANALYTICAL RESULTS
    1600U BIS(2-CHLOROETHYL) ETHER
1600U BIS(2-CHLOROISOPROPYL) ETHER
1600U N-NITROSODI-N-PROPYLAMINE
1600U HEXACHLOROETHANE
1600U ISOPHORONE
1600U BIS(2-CHLOROETHOXY) METHANE
1600U 1,2,4-TRICHLOROBENZENE
1600U NAPHTHALENE
1600U 4-CHLOROANTLINE
                                                                                                                      5100 FLUORANTHENE
4400 PYRENE
                                                                                                                     1600U BENZYL BUTYL PHTHALATE
                                                                                                                    1600U 3,37-DICHLOROBENZIDINE
2800 BÉNZO(A)ANTHRACENE
3000 CHRYSENE
                                                                                                                     1600U BIS(2-ETHYLHEXYL) PHTHALATE
1600U DI-N-OCTYLPHTHALATE
                                                                                                                    5600 BENZO(B AND/OR K)FLUORANTHENE
2800 BENZO-A-PYRENE
1600 INDENO (1,2,3-CD) PYRENE
1600U DIBENZO(A,H)ANTHRACENE
    1600U NAPHTHALENE
1600U 4-CHLOROBNILINE
1600U 1-MEXACHLOROBUTADIENE
1600U 2-METHYLNAPHTHALENE
1600U 2-CHLOROBUTADIENE (HCCP)
1600U 2-CHLORONAPHTHALENE
1600U 2-NITROANILINE
1600U 1METHYL PHTHALATE
120J ACENAPHTHYLENE
1600U 2.6-DINITROTOLUENE
1600U 3-NITROANILINE
1600U ACENAPHTHENE
1600U 0DIBENZOFURAN
1600U 2.4-DINITROTOLUENE
                                                                                                                     1500J BENZO(GHI)PERYLENE
                                                                                                                     1600U PHENOL
                                                                                                                                2-CHLOROPHENOL
BENZYL ALCOHOL
                                                                                                                     1600U
3100U
                                                                                                                                2-METHYLPHENOL
                                                                                                                     16000
                                                                                                                     1600U (3-AND/OR 4-)METHYLPHENOL
                                                                                                                     1600U 2-NITROPHENOL
                                                                                                                     1600U 2.4-DIMETHYLPHENOL
                                                                                                                     31000 BENZOIC ACID
                                                                                                                    1600U 2,4-DICHLOROPHENOL
1600U 4-CHLORO-3-METHYLPHENOL
1600U 2,4,6-TRICHLOROPHENOL
3100U 2,4,5-TRICHLOROPHENOL
3100U 2,4 DINITROPHENOL
3100U 4-NIROPHENOL
     1600U 2.4-DINITROTOLUENE
1600U DIETHYL PHTHALATE
     1600U FLUCRENE
1600U 4-CHLOROPHENYL PHENYL ETHER
1600U 4-NITROANILINE
     1600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
                                                                                                                     1600U 2,3,4,6-TETRACHLOROPHENOL
3100U 2-METHYL-4,6-DINITROPHENOL
     1600U 4-BROMOPHENYL PHENYL ETHER
      1600U HEXACHLOROBENZENE (HCB)
       3000 PHENANTHRENE
                                                                                                                     3100U PENTACHI OROPHENOL
       400J ANTHRACENE
                                                                                                                          23 PERCENT MOISTURE
     1600U DI-N-BUTYLPHTHALATE
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REMARKS

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10/03/88 EXTRACTABLE ORGANICS DATA DEDORT

EXI	RACTABI	LE ORGANICS DA	TA REPORT			 				
* *	SOUR	CF CONE MILLS	-WHITE OAK			CITY.	GREENSBORO	COLLECTED BY: A SPAUGH		**
**	STAT	ION ID: TB-01	TRIP BLANK			COLLE	CTION START:	ST: NC 08/22/88 1245 STOP * * * * * * * * * * * * * * * * * * *	P: 00/00/00	**
**	* * *					 				**
	UG/L		ANALYTICAL	L RESULTS		 UG/L		ANALYTICAL RESULTS		***
		5.5(5.5)		_				_		
	100	BIS(2-CHLOROE	THYL) ETHE	R		100	FLUORANTHEN	ΙΕ		
	100	N-NITROSODI-N	I-PROPVI AMII	CIMEK NF		100	PYKENE RENZVI BUTV	I DHTHALATE		
	iõŭ	HEXACHLOROETH	IANE			100	3.3'-DICHLO	ROBENZIDINE		
	100	NITROBENZENE				100	BÉNZO(A)ANT	HRACENE		
	100	ISOPHORONE	THOUGH MET			100	CHRYSENE	HENRY & BUTHALATA		
	100	1 2 4-TRICHIC	HUXY) MEH	HANE		100	BISC2-ETHYL	HEXYL) PHIHALAIE		
1	100	NAPHTHAL FOR	MODENZENE			100	BENZO(B AND	INDEANE		
	100	4-CHLOROANILI	NE			100	BENZO-A-PYR	RENE		
	100	HEXACHLOROBUT	ADIENE			100	INDENO (1,2	2,3-CD) PYRENE		
	100	2-METHYLNAPHT	HALENE	NE CHOODS		100	DIBENZO(A, H	DANTHRACENE		
	100	2-CHLORONAPHT	LUPENTADIE	NE (HCCP)		100	DENZULUNI	ERYLENE		
	10Ŭ	2-NITROANILIN	IE			100	2-CHLOROPHE	NOL		
	100	DIMETHYL PHTH	ALATE			200	BENZYL ALCO	OHOL		
	100	ACENAPHTHYLEN	IE			100	2-METHYLPHE	NOL		
	100	2,6-DINITRUTO	JUENE IF			100	(3-AND/UK 4	IOI		
	100	ACENAPHTHENE	· L			100	2 4-DIMETHY	(I PHENO)		
	100	DIBENZOFURAN				200	BÉNZOIC ACI	D		
	100	2,4-DINITROTO	LUENE			100	2,4-DICHLOR	ROPHENOL		
	100	DIFIHAT BHIH	ALAIE			100	4-CHLORO-3-	ME I HYLPHENOL		
	100	4-CHI OROPHENI	I DHENVI F	THER		100	2,4,6-1RICH	ILOROPHENOL ILOROPHENOL		
	100	4-NITROANILIN	IĒ	····civ		200	2.4 DINITRO	PHENOL		
	100	N-NITROSODIPH	HENYLAMINE/	DIPHENYLAM	INE	200	4-NITROPHEN	IOL		
	100	4-BROMOPHENYL	PHENYL E!	HER		100	2,3,4,6-TET	FRACHLOROPHENOL		
	100	HEXAUHLUKUBEN DUFNANTUDENE	NZENE (HCB)			200	Z-METHYL-4, DENTACHLORG	, 6-DINITKUPHENUL MURNOI		
	100	ANTHRACENE				200	PLINTAUDLUKU	OF DEMOL		
	100	DI-N-BUTYLPH1	THALATE							

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

10/03/88

RESULTS UNITS COMPOUND 20J UG/L 1 UNIDENTIFIED COMPOUND

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

RESULTS UNITS COMPOUND

FOOTNOTES

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD. ATHENS. GA.

10/03/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1135 STOP: 00/00/00 PROJECT NO. 88-607 SAMPLE NO. 29093 SAMPLE TYPE: SEDIM ** SOURCE: CONE MILLS-WHITE OAK STATION ID: SD-02 N BUFFALO CK MIDSTREAM ** ** ** ** **

RESULTS UNITS COMPOUND 300JN UG/KG BENZOFLUORANTHENE (NOT B AND/OR K) RESULTS UNITS COMPOUND

^{***}FOOTNOTES*** *A-AVERAGE *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM EPA-REGION IV ESD, ATHENS, GA.

10/03/88

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**

** RESULTS UNITS COMPOUND 200JN UG/KG CARBAZOLE RESULTS UNITS COMPOUND 400JN UG/KG METHYLPHENANTHRENE (2 ISOMERS)

400JN UG/KG CYCLOPENTAPHENANTHRENE 300JN UG/KG BENZONAPHTHOFURAN (2 ISOMERS) 700JN UG/KG BENZANTHRACENONE (2 ISOMERS) 600JN UG/KG TRIPHENYLENE 900JN UG/KG METHYLBENZANTHRACENE (3 ISOMERS)

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

STATION ID: SD-03 N BUFFALO CK DOWNGRAD

SOURCE: CONE MILLS-WHITE OAK

**

* *

PROJECT NO. 88-607 SAMPLE NO. 29095 SAMPLE TYPE: SEDIM

300JN UG/KG PHENANTHRENEDIONE 1000JN UG/KG METHYLFLUORANTHENE (4 ISOMERS) 400JN UG/KG BENZONAPHTHOTHIOPHENE 3000JN UG/KG BENZOFLUORANTHENE (3 ISOMERS) (NOT B OR K)

PROG ELEM: NSF COLLECTED BY: A SPAUGH

CITY: GREENSBORO

ST: NC

COLLECTION START: 08/22/88 1220 STOP: 00/00/00

FOOTNOTES *A-AVERAGE VALUE *NA NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMALED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613



****MEMORANDUM*****

DATE: 09/01/88

SUBJECT: Results of Purgeable Organic Analysis;

CONE MILLS-WHITE OAK 88-607

GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

PURGEABLE OF	RGANICS DATA REPORT	FA-REGION IV ESD, AII	ILNS, GA.	06/31/66
*** * * * *	* * * * * * * * * * * * * * * * * * *		* * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
** PROJECT	T NO. 88-607 SAMPLE NO. 29096 SAMPLE	TYPE: BLKWA PRO	G ELEM: NSF COLLECTED BY: A SPA	
** SOURCE:	: CONE MILLS-WHITE OAK N ID: TB-01 TRIP BLANK	COLI	Y: GREENSBORO ST: NC LECTION START: 08/22/88 1245 S	** ** 00/00/00 +*
**	TID. 10 OF THE BEARK	COLL	1243 3	**
*** * * * *				
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	5
5.0U C	HLOROMETHANE	5.00	CIS-1,3-DICHLOROPROPENE	
	INYL CHLORIDE	500	METHYL ISOBUTYL KETONE	
5.00 Br	ROMOMETHANE	U 00'1	TOLLIENE	
5.00 CH 5.00 TF 5.00 1	HLOROETHANE RICHLOROFLUOROMETHANE ,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	5.00 5.00 5.00 5.00 5.00 5.00	TRANS-1,3-DICHLOROPROPENE	
5. QU TF	RICHLOROFLUOROMETHANE	5. QU	1,1,2-TRICHLOROETHANE	
5.00	, 1-DICHLORUE (HENE(1, 1-DICHLORUE (HYLENE)	5.00	TETRACHLOROETHENE (TETRACHLOROE	THYLENE)
	CETONE ARBON DISULFIDE	5.00	1,3-DICHLOROPROPANE METHYL BUTYL KETONE	
5 OU M	ETHYLENE CHLORIDE	5.01	DIBROMOCHLOROMETHANE	
5.00 ME 5.00 TF	RANS-1,2-DICHLOROETHENE	5.0U 5.0U	CHLOROBENZENE	
5.0U 1,	,1-DICHLOROETHANE	100	1.1.1.2-TETRACHLOROETHANE	
	INYL ACETATE	5.0U 5.0V	ETHYL BENZENE	
5.00 C	IS-1,2-DICHLOROETHENE	<u>5.00</u>	(M- AND/OR P-)XYLENE	
5.00 2	, 2-DÎCHLOROPROPANE	5,00		
28J M i 5.00 Bi	ÉTHYL ETHYL KETONE ROMOCHLOROMETHANE	10U 5.0U	STYRENE BROMOFORM	
5.00 CI	HLOROFORM	100		
5.00 i	,1,1-TRICHLOROETHANE	ร. ้ดับ		
5,00 1	1-DICHLOROPROPENE	100	1.2.3-TRICHLOROPROPANE	
5.00 C/	ÁRBON TETRACHLORIDE	100		
5.0V 1	, 2-DICHLOROETHANE	100		
5.00 B	ÉNZENE	100		
5. OU TI	RICHLOROETHENE (TRICHLOROETHYLENE)	100		
5.0V 1 5.0V D	,2-DICHLOROPROPANE IBROMOMETHANE	100	1,2-DICHLOROBENZENE	
	ROMODICHLOROMETHANE			

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV COLLEGE STATION RD. ATHENS, GA. 30613



****MEMORANDUM*****

DATE: 09/02/88

SUBJECT: Results of Purgeable Organic Analysis;

88-607 CONE MILLS-WHITE OAK

GREENSBORO NC

FROM: Tom B. Bennett, jr.
Chief, Organic Chemistry Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

If you have any questions please contact me.

ATTACHMENT

PURGEABLE ORGANICS DATA REPORT *** * * * * * * * * * * * * * * * * *	PROG ELEM: NSF COLLECTED BY: A SPAUGH ** CITY: GREENSBORO ST: NC ** COLLECTION START: 08/22/88 1025 STOP: 00/00/00 ** **
UG/L S.OU CHLOROMETHANE 5.OU VINYL CHLORIDE 5.OU BROMOMETHANE 5.OU CHLOROETHANE 5.OU TRICHLOROFLUOROMETHANE 5.OU 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE) 5.OU ACETONE 5.OU METHYLENE CHLORIDE 5.OU TRANS-1,2-DICHLOROETHENE 5.OU 1,1-DICHLOROETHANE 5.OU 1,1-DICHLOROETHANE 5.OU VINYL ACETATE 5.OU CIS-1,2-DICHLOROETHENE 5.OU 2,2-DICHLOROPROPANE 5.OU 2,2-DICHLOROPROPANE 5.OU BROMOCHLOROMETHANE 5.OU CHLOROFORM 5.OU 1,1,1-TRICHLOROETHANE 5.OU 1,1,1-TRICHLOROETHANE 5.OU 1,2-DICHLOROETHANE 5.OU 1,1-DICHLOROETHANE 5.OU 1,1-DICHLOROETHANE 5.OU 1,1-DICHLOROETHANE 5.OU 1,1-DICHLOROETHANE 5.OU 1,2-DICHLOROETHANE 5.OU 1,2-DICHLOROETHANE 5.OU BROMOCHLOROMETHANE 5.OU BROMOCHLOROETHANE 5.OU BROMOCHLOROETHANE 5.OU BROMOCHLOROETHANE 5.OU BROMOCHLOROETHANE	SOU CIS-1,3-DICHLOROPROPENE 50U METHYL ISOBUTYL KETONE 1.5J TOLUENE 5.0U TRANS-1,3-DICHLOROPROPENE 5.0U 1,1,2-TRICHLOROETHANE 5.0U TETRACHLOROETHANE 5.0U 1.3-DICHLOROPROPANE 50U METHYL BUTYL KETONE 5.0U DIBROMOCHLOROMETHANE 5.0U CHLOROBENZENE 10U 1,1,1,2-TETRACHLOROETHANE 5.0U CHLOROBENZENE 10U 1,1,1,2-TETRACHLOROETHANE 5.0U (M- AND/OR P-)XYLENE 5.0U 0-XYLENE 10U STYRENE 5.0U BROMOFORM 10U BROMOFORM 10U BROMOBENZENE 5.0U 1,2,3-TRICHLOROPROPANE 10U 1,2,3-TRICHLOROPROPANE 10U P-CHLOROTOLUENE 10U 1,3-DICHLOROBENZENE 10U 1,3-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN

*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

V ESD, ATHENS, GA. 09/01/88

DURGEARL	E ORGANICS DATA REPORT	EPA-REGION IV ESD,	, ATHENS, GA.		09/01/66
*** * * * ** PRO	YECT NO. 88-607 SAMPLE NO. 29092 SAMPLE RCE: CONE MILLS-WHITE OAK TION ID: SW-02 N BUFFALO CK MIDSTREAM	* * * * * * * * * * TYPE: AMBWA	CITY: GREENSBORO	* * * * * * * * * * * * * * * * * * *	**
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09/01/88

PURGEABLE ORGANICS DATA REPORT	EPA-REGION IV ESD, ATHENS, GA.	09/01/00
*** * * * * * * * * * * * * * * * * *	CITY: GREENSBORO ST: N COLLECTION START: 08/22/88 1215	SPAUGH ** NC ** STOP: 00/00/00 **
UG/L ANALYTICAL RESULTS	* * * * * * * * * * * * * * * * * * *	SULTS
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1927 LAKESIDE PARKWAY SUITE 614 TUCKER, GEORGIA 30084 404-938-7710 Robert

C-586-8-8-54

August 5, 1988

Mr. Narindar Kumar Site Investigation and Support Branch Waste Management Division Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365

Subject: Site Screening Study Plan

Revision 0

Cone Mills Corporation, White Oak Plant Greensboro, Guilford County, North Carolina

TDD No. F4-8803-57

Dear Mr. Kumar:

Enclosed please fine one (1) copy of the Site Screening Study Plan, Revision 0, for Cone Mills Corporation, White Oak Plant, Greensboro, Guilford County, North Carolina.

Please contact me if you have any questions concerning this study plan.

Very truly yours,

Approved:

Douglas M. Chatham Project Manager

DMC/tb

Enclosure (1)

STUDY PLAN SITE SCREENING INVESTIGATION CONE MILLS CORPORATION, WHITE OAK PLANT GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA EPA ID #: NCD000776914

Prepared Under TDD No. F4-8803-57 CONTRACT NO. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 4, 1988

NUS CORPORATION SUPERFUND DIVISION

Prepared By

Reviewed By

Approved By

Douglas M. Chatham

Project Manager

Assistant Regional

Project Manager

Murray Warner, P.E.

Regional Project Manager

NOTICE

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TABLE OF CONTENTS

Section	<u>on</u>		<u>Page</u>		
1.0	INTRO	DDUCTION	1		
1.1	Objec		1		
1.2		e of Work	2		
1.3	Sched		2		
1.4	Perso		2 2 3 3		
1.5		ts and Authorization Requirements	3		
1. 6		istory and Description	3		
1.7	Regio	nal Hydrogeology	6		
2.0	SAMP	PLING INVESTIGATION	7		
2.1		ce Soil Sampling	7		
2.2	2.2 Subsurface Soil Sampling				
2.3	2.3 Groundwater Sampling				
2.4	.4 Sediment and Surface Water Sampling				
2.5	· · · · · · · · · · · · · · · · · · ·				
2.6		odology	11		
2.6.1	Gene	ral	11		
		FIGURES			
Figure	e 1-1	Site Location Map	4		
_		Site Layout Map	5		
Figure		Sample Location Map	8		
		TABLES			
Table	2-1	Sample Code Descriptions and Locations	9		
Refere	ences		12		

STUDY PLAN

SITE SCREENING INVESTIGATION

CONE MILLS CORPORATION, WHITE OAK PLANT

GREENSBORO, GUILFORD COUNTY, NORTH CAROLINA

EPA ID #NCD000776914

TDD NO. F4-8803-57

1.0 INTRODUCTION

The NUS Corporation Region IV Field Investigation Team (FIT) has been tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a site screening investigation (SSI) at the Cone Mills Corporation, White Oak Plant facility in Guilford County, North Carolina. The investigation will be performed under the authority of the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task will be performed to satisfy the requirements stated in Technical Directive Document (TDD) number F4-8803-57.

1.1 Objectives

The objectives of this sampling investigation are to collect information to assist in developing a site-specific preliminary HRS score and to determine if further investigation is required at this site.

Specific elements are:

- Obtain information to prepare a site specific preliminary HRS
- Provide EPA the necessary information to make decisions on any other actions warranted at the site.

1.2 Scope of Work

The scope of this investigation will include the following activities:

• Obtain and review background materials relevant to HRS scoring of site

Obtain aerial photographs and maps of site, if possible

Obtain information on local water systems

• Evaluate target population within a 4-mile radius of the site with regard to

groundwater use, surface water use, and possibility of direct contact or fire and

explosion hazard

Conduct a survey of private wells

Develop a site sketch to scale

• Collect up to 12 environmental samples consisting of surface soil, subsurface soil,

surface water sediment and groundwater sample

1.3 Schedule

To be determined

1.4 Personnel

Project Manager - Douglas M. Chatham

Other personnel as required

-2-

1.5 Permits and Authorization Requirements

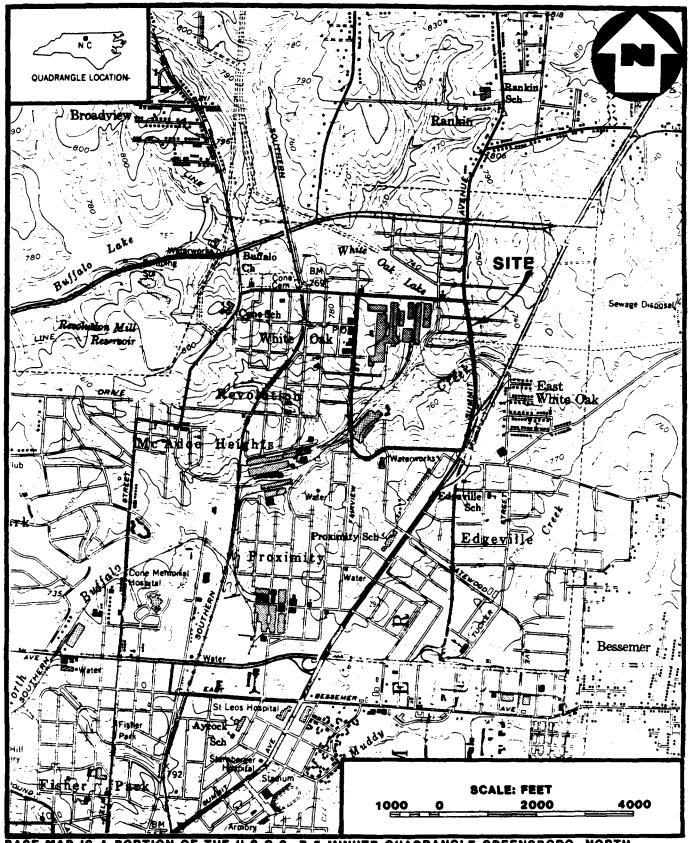
EPA is responsible for obtaining access to the site and permission to take photographs of site. In addition, EPA is responsible for all permits which may be required to accomplish this task.

1.6 <u>Site History and Description</u>

Cone Mills' White Oak Plant is located inside the Greensboro city limits in Guilford County, North Carolina (Refs. 1, 2). The site location is shown in Figure 1-1 and the site layout is shown in Figure 1-2. The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 3,4). Since at least 1973, the plant has produced textiles, from the fiber phase through finishing of broad woven fabric (Refs. 5,6). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 7). In 1981, 15 gallons of waste solvent per week were generated and subsequently discharged to the plant's wastewater treatment system. At that time, the facility had an NPDES permit; permit conditions apparently had been violated in 1973 or 1974 (Ref. 5). Dye wastes (possibly containing metals) and/or solvents may have been disposed of onsite through burial and/or land application (Refs. 1, 8). The North Carolina Department of Natural Resources and Community Development found indications of onsite contamination in the plant and creek areas (Ref. 8). Hazardous wastes from other Cone Mills plants were apparently stored at the White Oak Plant (Ref. 9). Materials used to clean up a small PCB spill at Cone Mills' Salisbury Plant were stored temporarily at the White Oak Plant (Ref. 10).

Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility (containers and tanks) and reported its wastes as 24,000 pounds per year of ignitable wastes (Ref. 1). The facility's status was changed from generator and storer to generator only in 1983, and its interim status was withdrawn (Refs. 11, 12). Its status was changed to small quantity generator in 1985 (Ref. 13).

Access to the site is limited by fences, gates, and security personnel. The surrounding area is primarily residential. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately 1-mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 3, 4).

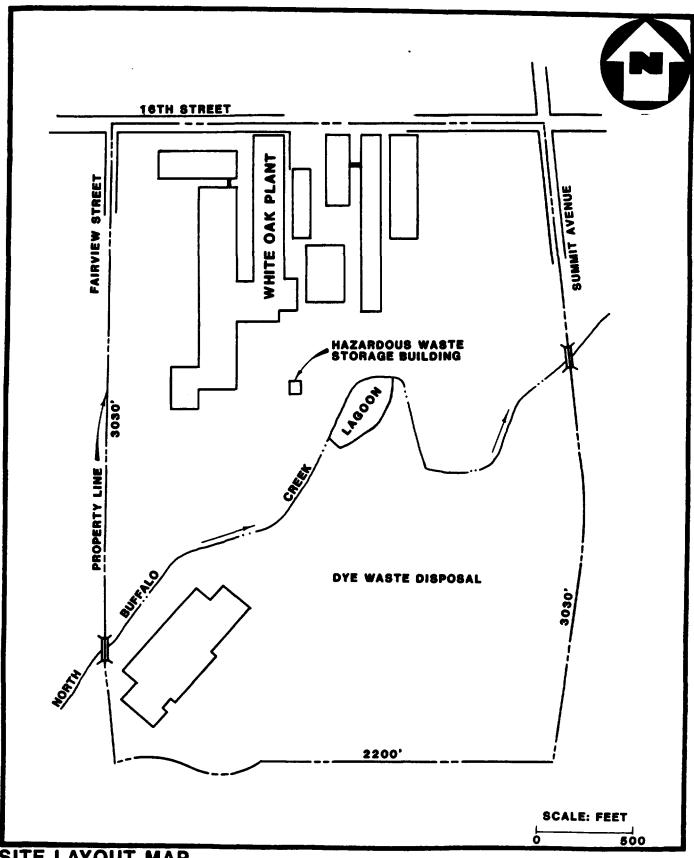


BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE GREENSBORO, NORTH CAROLINA, 1968.
SITE LOCATION MAP
FIGURE

CONE MILLS CORPORATION
GREENSBORO, (GUILFORD COUNTY)
NORTH CAROLINA



1-1



SITE LAYOUT MAP CONE MILLS CORPORATION GREENSBORO, (GUILFORD COUNTY) NORTH CAROLINA

FIGURE 1-2



1.7 Regional Hydrogeology

The Cone Mills Corporation, White Oak Plant is located within the Piedmont Physiographic Province. The area is characterized by gently rolling topography with elevations ranging between 740 and 900 feet above mean sea level (amsl) (Refs. 4, 14). Soils consist of a well drained, sandy clay loam (Ref. 15). The area is underlain by metamorphosed granitic rock (Ref. 16).

The metamorphosed granitic rock and the saturated regolith (weathered rock) overlying it both form the Crystalline Rock aquifer. The crystalline rocks have very low permeability. Large well yields depend on the interception of water-bearing fracture systems overlain by saturated regolith. Sustained yields depend on the thickness of the saturated regolith. The average yield of wells is from 10 to 25 gallons per minute (gpm); however, some wells may yield more than 200 gpm (Ref. 17). The average depth to the water table in this Piedmont area is approximately 15 feet (Ref. 24).

Most of the area within a 3-mile radius of the White Oak Plant lies within the service area boundaries of the Guilford County Water Department (Refs. 4, 18). Guilford County obtains its water supply from Lakes Townsend, Higgins, and Brandt, located more than 4 miles north/northwest of the site (Refs. 4, 19); the lakes are not located on the surface water migration pathway. Nearly the entire population within the city limits of Greensboro (Ref. 2) utilizes the county water system. Residents within the county's service areas but outside the city limits are not required to hook up to the county's water lines. Groundwater wells in the Greensboro area are generally at least 150 feet deep (Ref. 14). The nearest well is located at the Memorial Presbyterian Church, approximately 10,000 feet from the center of the plant; it serves approximately 75 persons (Refs. 4, 20-22). A small area 2\frac{1}{2}-3 miles north of the plant lies outside Guilford County's water service area (Refs. 4,18). Since this area is apparently not served by another water supplier (Ref. 19), its estimated 15 residences (57 persons) are assumed to use private wells. Two additional areas not served by Guilford County are located 3-4 miles north of the plant; an estimated 86 residences (327 persons) in these areas are assumed to use private wells. The actual numbers of residences may be higher, since the house counts were based upon 1968 topographic maps (Ref. 4).

North Buffalo Creek flows through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 3, 4). A 15-mile extended pathway would continue

downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Ref. 4). North Buffalo Creek and Buffalo Creek are apparently not used for recreation. There are apparently no water supply intakes located within 15 miles downstream from the facility (Ref. 23).

2.0 SAMPLING INVESTIGATION

The sampling investigation will include the collection of water and sediment samples from the onsite lagoon and from upgradient and downgradient locations in North Buffalo Creek. Composite surface soil and subsurface soil samples will be taken in the dye waste disposal area just south of the lagoon. A groundwater sample will be taken in this area reasonably close to the lagoon by installing a temporary well. Background samples for the surface and subsurface soil samples and the groundwater samples will be taken upstream along Buffalo Creek between the old building and the creek. Samples will be analyzed for extractable and purgeable organic compounds, pesticides, PCBs, cyanides, and metals. Analyses will be performed under the Contract Laboratory Program (CLP). Anticipated sample locations are shown in Figure 2-1. Sample code and descriptions are presented in Table 2-1.

2.1 Surface Soil Sampling

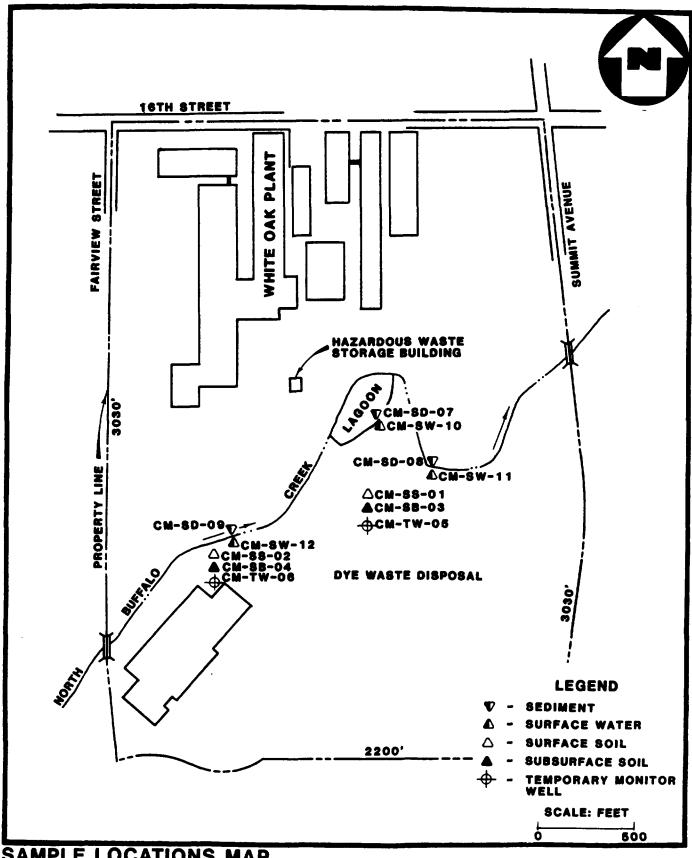
Two surface soil samples will be collected at the locations shown in Figure 2-1. These samples will be used to characterize upgradient and onsite surface soil conditions. Samples will be collected with stainless steel spoons.

2.2 Subsurface Soil Sampling

Two subsurface soil samples will be collected as shown in Figure 2-1 at the same locations as the surface soil samples and between 5 and 6 feet deep. These samples will be used to characterize upgradient and onsite subsurface soil conditions. Samples will be collected from boreholes advanced with a gasoline-powered hand auger.

2.3 Groundwater Sampling

Two groundwater samples will be collected as shown in Figure 2-1 at the same locations as the surface and subsurface soil samples. These samples will be used to characterize



SAMPLE LOCATIONS MAP
CONE MILLS CORPORATION
GREENSBORO, (GUILFORD COUNTY)
NORTH CAROLINA
-8-

FIGURE 1-3



TABLE 2-1
SAMPLE CODE DESCRIPTIONS AND LOCATIONS

Sample Code	Description	Location/Rationale
CM-SS-01	Surface Soil	Waste disposal area; establish absence or presence of contaminants.
CM-SS-02	Surface Soil	Upgradient from waste disposal area; establish ambient background.
CM-SB-03	Subsurface Soil	Waste disposal area; establish absence or presence of contaminants.
CM-SB-04	Subsurface Soil	Upgradient from waste disposal area; establish ambient background.
CM-TW-05	Temporary Well	Waste disposal area; establish absence or presence of contaminants.
CM-TW-06	Temporary Well	Upgradient from waste disposal area; establish ambient background.
CM-SD-07	Sediment	Lagoon; establish absence or presence of contaminants
CM-SD-08	Sediment	North Buffalo Creek; downgradient from waste disposal area; establish absence or presence of contaminants
CM-SD-09	Sediment	North Buffalo Creek; upgradient from waste disposal area; establish ambient background
CM-SW-10	Surface Water	Lagoon; establish absence or presence of contaminants
CM-SW-11	Surface Water	North Buffalo Creek; downgradient from waste disposal area; establish absence or presence of contaminants
CM-SW-12	Surface Water	North Buffalo Creek; upgradient from waste disposal area; establish ambient background

upgradient and onsite groundwater conditions. Samples will be collected by installing temporary wells using a gasoline-powered hand auger.

2.4 <u>Sediment and Surface Water Samples</u>

Three sediment and three surface water samples will be collected at the locations shown in Figure 2-1, two of each from North Buffalo Creek at upstream and downstream locations from the waste disposal area, and one of each from the lagoon.

2.5 Analytical and Container Requirements

Sample containers used will be in accordance with the requirements specified in the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986. The following is a description of the analysis and types of containers required.

Analyses	Container	Preservatives**
Ext. Organics, Water	1 gal., amber glass*	None
Volatile Organics, Water	40 ml., glass vial*	4 drops conc. HCL to pH <2
Metals, Water	1 liter, plastic	50% HNO ₃ to pH $<$ 2
Cyanide, Water	1 liter, plastic	NaOH to pH > 12
Ext. Organics, Soil/Sediment	8 oz., glass*	None
Volatile Organics Soil/Sediment	4 oz., glass*	None
Inorganics, Soil/Sediment	8 oz., glass*	None

^{*} Sample container lids are lined with teflon.

^{**} All samples will be iced to 4°C upon collection.

2.6 <u>Methodology</u>

2.6.1 General

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation will be in accordance with the standard operating procedures as specified in Section 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.

All laboratory analyses and laboratory quality assurance procedures used during this investigation will be in accordance with standard procedures and protocols as specified in the <u>Analytical Support Branch Operations and Quality Assurance Manual</u>; United States Environmental Protection Agency, Region IV, Environmental Services Division; revised June 1, 1985 or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

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- 3. Brown, Chris. Logbook F4-791 and photographs for Cone Mills, White Oak, Greensboro, N.C. TDD #F4-8803-58. Offsite reconnaissance and target survey. April 19, 1988.
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- 6. Elam, Harper J., III. Vice President and General Counsel. USEPA General Information form, Consolidated Permits Program, for Cone Mills Corporation, White Oak Plant, Greensboro, N.C. November 17, 1980.
- 7. Phibbs, Steve. District Sanitarian, North Central Regional Office. Memorandum to O.W. Strickland, Head, Solid and Hazardous Waste Management Branch, State of N.C. Re: Hazardous Waste Inspection, Cone Mills-White Oak Plant. September 23, 1982.
- 8. Crosby, Lee. N.C. Division of Health Services. USEPA Potential Hazardous Waste Site, Preliminary Assessment for Cone Mills Corporation/White Oak Plant. January 8, 1985.
- 9. Paige, William. Environmental Chemist, Solid and Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation, White Oak Plant. Re: Listings of Hazardous Waste Activities. August 18, 1981.
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- 11. Alspaugh, T.A. Manager, Water & Air Resources, Cone Mills Corporation. Letter to Thomas C. Karnoski, Environmental Engineer, Solid & Hazardous Waste Management Branch. Re: Hazardous Waste Management Permit Application, Cone Mills Corporation, White Oak Plant. February 28, 1983.
- 12. Strickland, O.W. Head, Solid & Hazardous Waste Management Branch, State of N.C. Letter to Tom A. Alspaugh, Cone Mills White Oak Plant. Re: Termination of interim status for the White Oak Plant. July 25, 1983.
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- 19. Grubbs, Don. Guilford County Water Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Water supply in the Greensboro, N.C. area. May 9, 1988.
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- 21. Dupont, Joan. NUS Corporation. Note to file. Re: Public water supply wells within 4 miles of Cone Mills Corp., White Oak Plant. TDD No. F4-8803-57. June 23, 1988.
- 22. NCDHR (North Carolina Department of Human Resources, Environmental Health Section, Water Supply Branch. Alphabetical within County Listings of Active Community and Non-Community PWS for Guilford County. November 19, 1987.
- 23. Moorefield, David. Water Administration, Guilford County Water and Sewer Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Use of North Buffalo Creek and Buffalo Creek. May 26, 1988.
- 24. North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council. Cape Fear River Basin Study: Ground-Water Supply Potential and Procedures for Well-Site Selection, Upper Cape Fear River Basin. October, 1983.

U. S ENVIRONMENTAL PROTECTION AGENCY REGION IV, ATHENS, GEORGIA

MEMORANDUM

DATE: AUG 16 1988

SUBJECT: Cone Mills Corporation, White Oak Plant

Site Screening Investigation Study Plan

Greensboro, Guilford County, North Carolina. ESD Project No. 88E-426.

atrice Boyle

FROM: Patrick Boyle

Hazardous Waste Section

Environmental Compliance Branch Environmental Services Division

TO: Narindar Kumar, Acting Chief

Site Assessment Section

Site Investigation and Support Branch

Waste Management Division

THRU: M. D. Lair, Chief

Hazardous Waste Section

Environmental Compliance Branch

Environmental Services Division

The subject document has been reviewed and it appears to be an adequate study plan for the intended purpose of the investigation.

If you have any questions concerning these comments, please call at FTS 250-3351.

cc: Lair/Mundrick

Knight

Blackwell, NUS

4ES/AS

October 12, 1988

Poil Blackwell NUS Corporation 1927 Lakeside Parkway Suite 614 Tucker, GA 30084

Dear Phil:

Enclosed is a copy of Extractable Organic data from samples collected at the Code Mills-White Oak; Greensoboro, NC: 58-507.

If you have any questions, please contact me at (404)546-3112.

Sincerely yours,

Tom B. Bennett, Chief Organic Chemistry Section

Enclosure

bcc: Narindar Kumar

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT PROJECT NO. 88-607 SAMPLE NO. 29094 SAMPLE TYPE: AMBWA SOURCE: CONE MILLS-WHITE OAK STATION ID: SW-03 N BUFFALO CK DOWNGRAD PROG ELEM: NSF COLLECTED BY: A SPAUGH CITY: GREENSBORO ST: NC COLLECTION START: 08/22/88 1215 STOP: 00/00/00 ** ** ** ** ** ** **

RESULTS UNITS COMPOUND 2JN UG/L CHLORODIETHYLTRIAZINE DIAMINE (SIMAZINE) RESULTS UNITS COMPOUND

^{***}FOOTNOTES*** *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



1927 LAKESIDE PARKWAY SUITE 614 TUCKER, GEORGIA 30084 404-938-7710

C-586-6-8-139

June 29, 1988

Mr. Narindar Kumar Site Investigation and Support Branch Waste Management Division Environmental Protection Agency 345 Courtland Street, N. E. Atlanta, Georgia 30365 Date: $\frac{7/7/8\%}{4-557}$

EPA Project Manager:

Subject:

Preliminary Reassessment

Cone Mills Corporation, White Oak Plant Greensboro, Guilford County, North Carolina

NCD 000776914 TDD No. F4-8803-57

Dear Mr. Kumar:

FIT 4 conducted a preliminary reassessment of the Cone Mills Corporation, White Oak Plant in Greensboro, Guilford County, North Carolina. The reassessment included a review of both EPA and State of North Carolina file material, an off-site reconnaissance, and a target survey.

Cone Mills' White Oak Plant is located inside the Greensboro city limits (Refs. 1, 2). The facility's newer (northern) and older (southern) sections are separated by North Buffalo Creek (Refs. 3,4). Since at least 1973, the plant has produced textiles, from the fiber phase through finishing of broad woven fabric (Refs. 5,6). Chlorinated solvents were used in plant operations prior to 1982 (Ref. 7). In 1981, 15 gallons of waste solvent per week were generated and subsequently discharged to the plant's wastewater treatment system. At that time, the facility had an NPDES permit; permit conditions apparently had been violated in 1973 or 1974 (Ref. 5). Dye wastes (possibly containing metals) and/or solvents may have been disposed of onsite through burial and/or land application (Refs. 1, 8). The North Carolina Department of Natural Resources and Community Development found indications of onsite contamination in the plant and creek areas (Ref. 8). Hazardous wastes from other Cone Mills plants were apparently stored at the White Oak Plant (Ref. 9). Materials used to clean up a small PCB spill at Cone Mills' Salisbury Plant were stored temporarily at the White Oak Plant (Ref. 10).

Cone Mills submitted a RCRA Part A application for interim status for the White Oak Plant on November 17, 1980. The company filed as a storage facility (containers and tanks) and reported its wastes as 24,000 pounds per year of ignitable wastes (Ref. 1). The facility's status was changed from generator and storer to generator only in 1983 and its interim status was withdrawn (Refs. 11, 12). Its status was changed to small quantity generator in 1985 (Ref. 13).

Mr. Narindar Kumar Environmental Protection Agency TDD No.F4-8803-57 June 29, 1988, Page 2

The Cone Mills Corporation, White Oak Plant is located within the Piedmont Physiographic Province. The area is characterized by gently rolling topography with elevations ranging between 740 and 900 feet above mean sea level (amsl) (Refs. 4, 14). Soils consist of a well drained, sandy clay loam (Ref. 15). The area is underlain by metamorphosed granitic rock (Ref. 16).

The metamorphosed granitic rock and the saturated regolith (weathered rock) overlying it both form the Crystalline Rock Aquifer. The crystalline rocks have very low permeability. Large well yields depend on the interception of water-bearing fracture systems overlain by saturated regolith. Sustained yields depend on the thickness of the saturated regolith. The average yield of wells is from 10 to 25 gallons per minute (gpm); however, some wells may yield more than 200 gpm (Ref. 17). The average depth to the water table in this Piedmont area is approximately 15 feet (Ref. 24).

Most of the area within a three-mile radius of the White Oak Plant lies within the service area boundaries of the Guilford County Water Department (Refs. 4, 18). Guilford County obtains its water supply from Lakes Townsend, Higgins, and Brandt, located more than four miles north/northwest of the site (Refs. 4, 19); the lakes are not located on the surface water migration pathway. Nearly the entire population within the city limits of Greensboro (Ref. 2) utilizes the county water system. Residents within the county's service areas but outside the city limits are not required to hook up to the county's water lines. Groundwater wells in the Greensboro area are generally at least 150 feet deep (Ref. 14). The nearest well is located at the Memorial Presbyterian Church, approximately 10,000 feet from the center of the plant; it serves approximately 75 persons (Refs. 4, 20-22). A small area 2.5-3 miles north of the plant lies outside Guilford County's water service area (Refs. 4,18). Since this area is apparently not served by another water supplier (Ref. 19), its estimated 15 residences (57 persons) are assumed to use private wells. Two additional areas not served by Guilford County are located 3-4 miles north of the plant; an estimated 86 residences (327 persons) in these areas are assumed to use private wells. The actual numbers of residences may be higher, since the house counts were based upon 1986 topographic maps (Ref. 4).

North Buffalo Creek flows through the mid-section of the White Oak Plant. Water from White Oak Lake (north of the plant) flows along a stream on the east side of the plant and enters North Buffalo Creek (Refs. 3, 4). A 15-mile extended pathway would continue downstream into Buffalo Creek, past its confluence with South Buffalo Creek (Ref. 4). North Buffalo Creek and Buffalo Creek are apparently not used for recreation. There are apparently no water supply intakes located within 15 miles downstream from the facility (Ref. 23).

Access to the site is limited by fences, gates, and security personnel. The surrounding area is primarily residential. A recreational facility is located on Fairview Street, across from the plant's main entrance; another recreational area is located approximately one mile north of the plant, south of Rankin School. Caesar Cone School is located approximately 2500 feet west of the plant (Refs. 3, 4).

Mr. Narindar Kumar Environmental Protection Agency TDD No.F4-8803-57 June 29, 1988, Page 3

Based upon the information given above and the enclosures, no further remedial action planned is recommended for the Cone Mills Corporation, White Oak Plant. If you have any questions concerning this site, please contact me at NUS Corporation.

Very truly yours,

Joan J. Dupont

Project Manager

JJD/las

Enclosures

cc: Denise Bland

Approved:

arnie Ostrophy

REFERENCES

- 1. Elam, Harper J., III. Vice President and General Counsel. USEPA Hazardous Waste Permit Application for Cone Mills Corp., White Oak Plant. November 17, 1980.
- 2. Map of City of Greensboro, North Carolina. 1985.
- 3. Brown, Chris. Logbook F4-791 and photographs for Cone Mills, White Oak, Greensboro, N.C. TDD #F4-8803-58. Offsite reconnaissance and target survey. April 19, 1988.
- 4. United States Geological Survey. Topographic Quadrangles for Browns Summit (1951, photorevised 1986), Greensboro (1951, photorevised 1968), Lake Brandt (1951, photorevised 1968), and McLeansville (1952, photorevised 1968), North Carolina. 7.5 minute series.
- 5. Phibbs, Steve. Solid and Hazardous Waste Management Branch, State of N.C., RCRA Inspection Checklist: Generators Checklist for Cone Mills-White Oak. June 23, 1981.
- 6. Elam, Harper J., III. Vice President and General Counsel. USEPA General Information form, Consolidated Permits Program, for Cone Mills Corporation, White Oak Plant, Greensboro, N.C. November 17, 1980.
- 7. Phibbs, Steve. District Sanitarian, North Central Regional Office. Memorandum to O.W. Strickland, Head, Solid and Hazardous Waste Management Branch, State of N.C. Re: Hazardous Waste Inspection, Cone Mills-White Oak Plant. September 23, 1982.
- 8. Crosby, Lee. N.C. Division of Health Services. USEPA Potential Hazardous Waste Site, Preliminary Assessment for Cone Mills Corporation/White Oak Plant. January 8, 1985.
- 9. Paige, William. Environmental Chemist, Solid and Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation, White Oak Plant. Re: Listings of Hazardous Waste Activities. August 18, 1981.
- 10. Alspaugh, T.A. Manager, Water & Air Resources, Cone Mills Corporation. Letter to William Paige, Solid and Hazardous Waste Management Branch, State of N.C. Re: PCB Transformer Blowup, Cone Mills Corporation, Salisbury, N.C. August 5, 1981.
- 11. Alspaugh, T.A. Manager, Water & Air Resources, Cone Mills Corporation. Letter to Thomas C. Karnoski, Environmental Engineer, Solid & Hazardous Waste Management Branch. Re: Hazardous Waste Management Permit Application, Cone Mills Corporation, White Oak Plant. February 28, 1983.
- 12. Strickland, O.W. Head, Solid & Hazardous Waste Management Branch, State of N.C. Letter to Tom A. Alspaugh, Cone Mills White Oak Plant. Re: Termination of interim status for the White Oak Plant. July 25, 1983.
- 13. Lawson, Keith. Environmental Chemist, Solid & Hazardous Waste Management Branch, State of N.C. Letter to T.A. Alspaugh, Cone Mills Corporation. Re: Change in RCRA status for the White Oak Plant. April 29, 1985.
- 14. Mundorff, M.J., 1948. Geology and Groundwater in the Greensboro Area, North Carolina. North Carolina Department of Conservation and Development, Bulletin No. 55.

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- 16. North Carolina Geologic Survey, 1985. Geological Map of North Carolina.
- 17. U.S.G.S. (United States Geological Survey), 1984. National Water Summary 1984. U.S.G.S. WRI-2275.
- 18. Guilford County, N.C., Service Area Map (Water and Sewer). 1979, Revised August 24, 1987.
- 19. Grubbs, Don. Guilford County Water Department, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Water supply in the Greensboro, N.C. area. May 9, 1988.
- 20. Faw, Rev. McLean. Memorial Presbyterian Church, Greensboro, N.C. Personal communication with Joan Dupont, NUS Corporation. Re: Drinking water well located at Memorial Presbyterian Church. May 25, 1988.
- 21. Dupont, Joan. NUS Corporation. Note to file. Re: Public water supply wells within 4 miles of Cone Mills Corp., White Oak Plant. TDD No. F4-8803-57. June 23, 1988.
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- 24. North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council. Cape Fear River Basin Study: Ground-Water Supply Potential and Procedures for Well-Site Selection, Upper Cape Fear River Basin. October, 1983.

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TONE MILLS CORP., WHITE DAM PLANT EFA SITE NUMBER NODCO0776914 GREENSBORD GUILFORD COUNTY, NO EPA REGION: 4

SCORE STATUS: IN FREPARATION

OF NUS CORPORATION
ON 06/01/88

DATE OF THIS REPORT: 06/30/88
DATE OF LAST MODIFICATION: 06/30/88

GROUND WATER ROUTE SCORE: 25.38
SURFACE WATER ROUTE SCORE: 0.00
AIR ROUTE SCORE : 0.00

MIGRATION SCORE : 14.67

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SUMMARY OF MIGRATION SCORE CALCULATIONS

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RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site name:

Cone Milly White Oak Flant

City, County, State: Greensborc, Guilford County, North Carolina

NCD 000776914

Person responsible for form:

Jean J. Dupont

Date:

June 23, 1988

Air Pathway

Describe any potential air emission sources onsite:

Unknown, with respect to huzardous weistes. (Three smake stacks are located at the newer section of the facility.)
Identify any sensitive environments within 4 miles: Freshwater wetlands are located 3.5-4 miles from the facility.

Identify the maximally exposed individual (nearest residence or regularly occupied building workers do count): Onsite workers, since the facility is currently active

Groundwater Pathway

Identify any areas of karst terrain:

None apparent

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: None

Do significant targets exist between 3 and 4 miles from the site?

Is the AOC a sole source aguifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flager County, Florida)

No

Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway?

No

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway?

No

Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher?

Possibly - Dye wastes and/or solvents may have been disposated of encite through burial and/or land application.

Is the site accessible to non-employees (workers do not count)?

NO - Access is limited by Lences, gates, and security fersonnel.

Are there residences, schools, or daycare centers onsite or in close proximity?

A recreational facility is located on Fairview Street, across from the plant's main entrance. Another recreational area is located Are there barriers to travel (e.g., a river) within one mile?

North Buffalo Creek flews nertheast through the facility.

White Cak Lake is located north of the facility.

approximately one mile north of the plant, south of Rankin School. Caesar Cone School is located approximately & 2500 feet west of the plant.

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III. PROCESSES (continued)

included with above

Continued from page 2. NCT2: Phatocopy this page before completing if yo -fe more then 25 westes to list. Form Approved OMS No. 158-S80004 FOR OFFICIAL USE ONLY EPA LO. NUMBER (enter from page 1) ₩ 431 W N C D 0 0 0 7 7 17 16 9 2 DUP DUP IV. DESCRIPTION OF HAZARDOUS WASTES (continued) C. UNIT OF MEA-SURE (enter code) A. EPA HAZARD. ZO WASTENO JZ (enter code) D. PROCESSES B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES 1 ם 0 0 1 24000 0 2 01 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

EPA Form 3510-3 (6-80)

CONE MILLS CORP. WHITE OAK PLANT GREENSBORD, N.C. Map of City of Greensboro, North Carolina. 1985.

(Large map. On file at NUS Corporation.)



LEVEL

NOTEBOOK NO. 311

F4 -791
Core Mills White Oak
F4- 8103-57
Greenburg N-C
·
Joan J. Diront
Proj. Mr.



NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

- Record on front cover of the Logbook:
 TDD No., Site Name, Site Location, Project Manager
- 2. All entries are made using ink.
- 3. Provide statement referencing Equipment Location Log.
- Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team member signatures.
- Sign and date each page, Project Manager is to review and sign off on each logbook daily.
- 6. A single line is drawn through error. Each correction is dated/initialed.
- 7. Report weather conditions. Provide general site description and remarks.
- 8. Document all changes from project planning documents.
- Provide a site sketch with sample locations.
- 10. Document all calibration and preoperational checks of equipment.
- 11. Provide reference to Sampling Field Sheets for detailed sampling information.
- 12. Maintain photo log by completing the stamped information at the end of the logbook.
- 13. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

	7/19/55 000	001
1030	Arrived at the Cone	_
	M. 115 Pac. 1. ty located at	
-	the recorded of 16th	
	Staced and Tainview street	-
	The facility cousts scuent	(
	Squere blocks and is sull	(
 	active.	
	A new porter of the	
	plant is located along	
	16th street while a	
	older looking section is	
	located South of 16th	
	off Fairview St.	
	A creek our between	,
	the old + new sections	(
	as well as a rail	
	road track.	
	Chis Bown	
j		

4/19/22 C Stream Photo. Phot: #1 ODORO: * Each section actually consists -1 a number it buildings.

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C. Brown 1/19/88 - Greansboro N.C looking north o Overvier C. Brown 4/19/8 10:30 Cone Hills - Greensborn, N.C. Tooking N-NE fre LEarriew Street 119/88 C Brown 10:30 Conc Mills - Greenstoro, N.C. Varchares in requesid-

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Reference #4 **OVERSIZED DOCUMENT** MAP

No.			
Nam	ne; _زنہر	Mills-White Cake N.C. Dor's 77697	County
_	tation 120	onContact Person	Date /
		Participants	
INS	TRUC	TIONS: In the space provided, use the listed codes to C - Compliance, NC - Noncompliance, NA - Not A	
1.	EPA	identification number, if applicable (262.12)	Al. C. DOCOT76919
2.	Was	te Volume (261.5)	
	a.	*Small Generator (<1000 kg/Mo)	
	b.	*Large Generator > 1000 kg/Mo) (*Note: Special limits on 261.33(e) list)	
3.	was	efly describe the plant operations and the type of te generated. (Volume, form) 15 agllons of Stewsolvents Sevenated on A weekly basis	·
4.	Whe So	re is the waste currently being disposed? Waste I went is discharged to Plant wastewater The	centment System
5.	Che	ck Manifest (262.20 - 262.23)	
•	a.	identification (I.D. code, name, address, date)	<u> </u>
	b.	waste information (shipping description, hazard class, quantity and unit)	<u>yes</u>
	c.	emergency information (immediate response information, special handling instructions, phone no.)	<u> </u>
	d.	certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA".	yes
٤.	Che	ck Containers (262.30)	·
	a.	improper construction	
	b.	leaks or corrosion	
	c.	heat generation from incompatible wastes	

- 1	ontinued	
7.	Labeling practices and marking (262.31 - 262.	32)
	a. DOT shipping description	
	b. Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found contact the nearest police or public safet authority or the U.S. Environmental Pro- tection Agency.	
	Generator's Name and Address	-
	Manifest Document Number	waste shipped in bul
8.	Placards for transport (262.33)	
9.	Check accumulation time of wastes: (262.34)	NA
	a. check records and dates	
	b. check containers	
10.	Recordkeeping practices:	
	a. manifests (262.40)	
	b. test results (262.40)	- hes
	c. annual reports (262.41)	
	d. exception reports (262.42)	
11.	International shipments (262.50)	N/A
12.	Permit information:	
	a. Check all applicable permits held by the	generator:
	NPDES Permit SPCC PlanState Per	mit (Specify)
	RCRA StorerRCRA Treater	
	Other (Specify)	
	b. In Compliance Ves No Unknown with r	espect to: Regulation Name/#
13	Past regulatory actions: (Circle response)	Contract to the tract
	None	
	Yes If yes, summarize: NPDES des	scharge questioned 7-8
		Com DANO DAID \$1500 fore

RCRA INSPECTION CHECK LIST

Date of Performed by EPA or Action None Yes Specify: Circle response	Continued			
None None Yes Specify: Remedial activity (past or on-going): (Circle response) None	. Inspection a	activity (past or	on-going):	(Circle response)
Remedial activity (past or on-going): (Circle response) None	·	Past	by EPA or	Describe: DRCD
None		fy:		Réguliements
None				-
		ivity (past or on-	-going): (Circle response)
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Please print or type in the unsheded areas only. Ifill—in ereas are special for elite type, i.e., 12 cha		
FORM	GENERAL INFORMATION	L. EFA LB. NOMBER
SEPA .	Consolidated Pennita Program Read the "General Instructions" before start	F NC D 0 0 0 7 7 6 9 1 4
EASTE PROME	and the country and of the colors are	GENERAL INSTRUCTIONS
L'EPA (D' NUMBER	Reference No. 6	If a preprinted label has been provided it in the designessed space. Review the in
HL FACILITY HAME	* * . * . * . * . * . * . * . * . * . *	stion cerefully; If any of it is incorrect, through it and enter the correct date
+++++	1 1 12 2 2 2 1 / /	appropriate fill—in eres below. Also, if it the preprinted date is absent (she area
FACILITY MAILING ADDRESS	ASE PLACE LABEL IN THIS SP	left of the label space lists the information that should appear), please provide it
7///		proper TIH-IN areast/ below, If the is
		Items I, III, V, and VI (except VI-8 must be completed reporting), Comple
VI. LOCATION		items if no label has been provided. Re the instructions for detailed item de
/////X///		tions and for the legal authorizations which this data is collected.
II. POLLUTANT CHARACTERISTICS		
INSTRUCTIONS: Complete Atthrough J. to d	lessemine whether you need to submit my	permit application forms to the EPA. If you answer "yes" to
questions, you must submit this fame and the	supplemental form listed in the perenthesis	following the question. Mark "X" in the box in the third colu- sebmit any of these forms. You may answer "no" if your ectiv
is excluded from permit requirements; see Secti	on C of the instructions. See size, Section ${\mathbb D}$	of the instructions for definitions of hold—faced terms.
SPECIFIC QUESTIONS	700 00 printing	SPECIFIC GUESTIONS WES NO AT
As is this facility a publishy amost treatment which results in a discharge to waters of	incheda.	r will this facility (a/ther existing or proposed)
(FORM 2A)	X	enimal production facility which results in a
C. Is this a facility which currently results in	discharges: D. is this	proposed facility lother than those described
A or 8 above? (FORM 2C)		r B above/ which will result in a dissharys to x
E. Dess. or will this facility treat, store, or o	dispose of municipal control of the	or will you inject at this feelility industrial or pel effluent below the lowermost stretum con-
	X X taining, undergr	within one quarter mile of the well bors. X round sources of drinking water? (FORM 4)
G. Do you or will you inject at this facility any week or other fluids which are brought to t	tre surface H. De you	er will you inject at this facility fluids for spe-
in connection with conventional all or nature duction, inject fluids used for enhanced m	ret gas pro-	passes such as mining of sulfur by the Fresch , solution mining of minerals, in situ combus-
oil or natural gas, or inject fluids for storag hydrocarbone? (FORM 4)	of liquid X tion of (FORM	fossili fuel, or recovery of geothermal energy?
I. Is this facility a proposed stationary source one of the 28 industrial asseguries listed.	e which is	facility a proposed stationary source which is me of the 28 industrial categories listed in the
structions and which will potentially emit per year of any air pollutant regulated	100 tons instruct	tions and which will potentially emit 250 tons is of any eir pollutent regulated under the Clean
Clean Air Act and may effect or be loss attainment area? (FORM 5)	stad in an X Air Ad	t and may affect or be located in an attainment X PORM 5)
IIL NAME OF FACILITY		
CONE MILLS		HITE O A.K. P.L.A.N.T.
IV. FACILITY CONTACT	•	• •
	NE floor, State 4: Stillet /-	B. PHONE (area code & no.)
ZAISPAUGH TOM	IGR WATER & WA	STE 9 1 9 3 7 9 6 5 7 9
V. FACILITY MAILING ADDRESS	•	4 16 · 41 19 · 41 10 · 10 1
	T OR P.O. BOX	
32420 FAIRVIEW	STREET	
& CITY OR TO	wn Est	ATE B. ZIP CODE
4 GREENSBORO		C 2 7 4 0 5
VL FACILITY LOCATION		ज र भ
A. STREET, ROUTE NO. OR	OTHER SPECIFIC IDENTIFIER	
	STREET	
B. COUNTY NAM		46
GUILFORD		
GGILFORD		
···		CONTRACTOR OF FAIREY CARE
GREENSBORO	, , , , , , , , , , , , , , , , , , , 	C 2 7 4 0 5

CONTINUED FROM THE FRONT					
VIL SIC CODES (4-digit, in order of priority)					
A. PIRST				B. SECOND	
7 2 2 1 1 (specify) Weave		7	(specify)		
Rroadwoven fabric.	cotton	13.16			
C. THIRD				D. FOURTH	
(specify)		5	(specify)		
10 11 · 10			,		
VIIL GPERATOR INFORMATION					
	A. NAME				Is the name lister
al a a war water to a company		•		,	ewner?
	RATION	1			_ X YES □ N
16 16	•			T	• •
C. STATUS OF OPERATOR (Enser the appropriate F = FEDERAL M = PUBLIC (other than federal of		er bax; if "Owner specify)	т, фесту.)	E. PHORE	(eres code & no.)
S-STATE 0 = OTHER (specify)	P /	specify)		A 9 1 9	3 7 9 6 2 2 0
P = PRIVATE 8. STREET OF P.O. P				18 - 88 (9 - 11 8 - 20
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1 2 0 1 MAPLE STREET					
P. CITY OR TOWN		G.STAT	H. ZIP COD	IX, INDIAN LAND	
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BGREENSBORO		N C	2 7 4 0		₩ NO
10-10-		40 41 40	67 -	52 H	
X. EXISTING ERVIRONMENTAL PERMITS					
	PSO (Air Emission	s from Proposed	Sources)		
PN N C 0 0 0 0 8 7 6					
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18 19 19 19	17 11	•	58		
XL MAP					_
Attack to this application a topographic map of the the outline of the facility, the location of each of					
treatment, storage, or disposal facilities, and each					
water bodies in the map area. See instructions for pr	ecise requiremen	ts.			
XHL MATURE OF BUSINESS (provide a brief description)					
		-1-44-1		n fahris	
Integrated textile plant; fiber t	nrough fini	surna or c	LOWG MOAS	n labile,	
all cotton and some cotton and sy	MEDELIC DIE	inds.			
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XIIL-CERTIFICATION (see instructions)					
		- 4- m	h she lede	don automitico d'Incid	la appella salas and de
. I cartify under penelty of lew that I have personell attachments and that, based on my inquiry of the	y examined and i	em remilier wit nadiately resor	n the informed position for obt	oon suomitted in thi eining the informati	is application and all
application, I believe that the information is true,					
false information, including the possibility of fine at			· · · · · · · · · · · · · · · · · · ·		
A NAME & OFFICIAL TITLE (1999 or print) Hipper J. Elam, III	SIGNAT	1 / 1		-·	DATE SIGNED
Vice President & General Counsel	1'4	1115	lam		11/17/80
Aice Liezideur a deuerai coduzei		ハケル・	xam_	11/	· • · · • · - ·
COMMENTS FOR OFFICIAL USE ONLY					
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Ronald H. Levine, M.D., M.P.H. STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES NORTH CENTRAL REGIONAL OFFICE 720 Coliseum Drive-Plaza West Winston-Salem, N.C. 27106 (919) 761-2390

September 23, 1982

MEMORANDUM

TO:

O.W. Strickland, Head

Solid and Hazardous Waste Management

Branch

FROM:

Steve Phibbs, District Sanitarian North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mil-1s - White Oak Plant

2420 Fairview Street Greensboro, N.C. 27405 E.P.A. ID#NCD000776914



SP:kd

STATE OF NORTH CAROLINA



1) Facility Information

Cone Mills - White Oak Plant 2420 Fairview Street Greensboro, N.C. 27405

- 2) Facility Contact Tom Alspaugh
- 3) Survey Participants
 Tom Alspaugh, Cone Mills
 Arthur Toompas, Cone Mills
 Steve Phibbs, District Sanitarian, DHS
- 4) Date of Inspection
 September 21, 1982
- 5) Applicable Regulations
 40 CFR Part 262 and Part 265
- 6) Scope of Survey
 No change

7) Facility Description

No change 4) Addendum - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Deficiencies
None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT FACILITIES

Yam	ne Mills Corp-White Clak Hant	NC	0000	County 776419 Facility	· Lully
200	Taiwiew I., Greendon, N.C. 2746 et. 21. 1982	Signat	5,64	nepectro	211/1-
TNS	TRUCTIONS: Place a check to indicate Complian Applicable (NA). Cite specific vi	ce (C), olation	NonComp by Sect	liance (ion No.	NC) or Not
		<u> </u>	NC	NA	Violation(s)
١.	GENERAL	<u>~</u>			
2.	GENERAL FACILITY STANDARDS				
3.	PREPAREDNESS AND PREVENTION	~			
4.	CONTINGENCY PLAN AND EMERGENCY PROCEDURES				
5.	MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	$\underline{\hspace{0.1cm}}$			
6.	GROUND-WATER MONITORING			<u>~</u>	
7.	CLOSURE AND POST-CLOSURE	~			
8.	FINANCIAL REQUIREMENTS			<u>~</u>	
9.	USE AND MANAGEMENT OF CONTAINERS				
٥.	TANKS			¥	
1.	SURFACE IMPOUNDMENTS				
2.	WASTE PILES			_	
3.	LAND TREATMENT			_	
4.	LANDFILLS -			~	
5.	INCINERATORS			ンレン	
6.	THERMAL TREATMENT			<i>-</i>	
7.	CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT			<u>~</u>	
18.	UNDERGROUND INJECTION			<u>_</u>	
	Menerator, TSD Hautity		YES		<u>NO</u>

DHS Form 3010 (7-81) SOLID & HAZARDOUS WASTE

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT L. IDENTIFICATION O1 STATE O2 SITE NUMBER NC. D000776914						SITE NUMBER		
II. SITE NAME AND LOCATION								
01 SITE NAME (Legal, common, or descriptive name of ada)	Ţ	02 STREE	T, ROUTE NO., OF	SPECIFIC LOCATION	IDENTIFIER			
Cone Mill Corp./White Oak Plant			Fairvie	w Street	•	07COUNTY OF CONG		
Greensboro	į	NC	27405	Guilford		41 6		
09 COORDINATES LATITUDE LONG	TUDE					1 41 10		
36 06 25 30 sar 079 46	15							
10 DIRECTIONS TO SITE (Starting from received public read)								
In Greensboro on 185 take US 29 on 16th Street. Cone Mills Whi 16th and Fairview Streets.								
III. RESPONSIBLE PARTIES								
O1 OWNER (F Incom) Cone Mills Corp.		02 STREE	(Business, mailing,	residential)	- 3 - 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3-			
03 СПУ		04 STATE	06 ZIP CODE	(06 TELEPHONE	NUMBER			
07 OPERATOR (If known and different from owner)		OS STREE	(Business, maling,	rectionité				
ое спу		10 STATE	11 ZIP CODE	12 TELEPHONE	NUMBER	-		
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE B. FEDERAL: (Agency name) C. STATE D.COUNTY E. MUNICIPAL G. UNKNOWN								
14 OWNER/OPERATOR NOTIFICATION ON FILE (Cheek at that spent) A. RCRA 3001 DATE RECEIVED: 11 17 180 MONTH DAY YEAR	3 B. UNCONTROLLE	ED WAST	E SITE (CENCLA 16	DATE RECEIVE	ED: /	C. NONE		
IV. CHARACTERIZATION OF POTENTIAL HAZARD					-			
Of ON SITE INSPECTION YES DATE 5 11 84 ONO ON DAY YEAR OB S. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR E. LOCAL HEALTH OFFICIAL F. OTHER: CONTRACTOR NAME(S): RCRA Compliance Inspection								
02 SITE STATUS (Check one) A. ACTIVE B. INACTIVE C. UNKNOWN 03 YEARS OF OPERATION 1980 UNIQUOWN BEQUIPME YEAR BECING YEAR BECING YEAR								
Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination on the plant and creek areas) and offsite via conveyance down the creek. OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION								
Possibly suface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.								
V. PRIORITY ASSESSMENT								
O1 PRIORITY FOR INSPECTION (Choose one, if high or madure is absoluted, complete Part 2 - Mass information and Part 2 - Description of Missandium Conditions and Institutely A. HIGH (Inspection required premptly) B. MEDIUM C. LOW D. NONE (Inspection required premptly) (Inspection required) (Inspection required) (Inspection required)								
VI. INFORMATION AVAILABLE FROM								
01 CONTACT	02 OF (Agency/Organics	eton)				03 TELEPHONE NUMBER		
T.A. Alspaugh	Cone Mills				7	(919) 379-6579		
04 PERSON RESPONSIBLE FOR ASSESSMENT Lee Crosby	06 AGENCY NC DHS	So1	wazation & Haz te Mot. 1	07 TELEPHON Rr (919) 73	-	06 DATE 1 /8 /85 MONTH DAY YEAR		

EPA FORM 2070-12 (7-81)

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION O1 STATE 02 SITE NAMES NC D000776914

PRELIMINARY ASSESSMENT
- DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS	THE REPORT OF THE PROPERTY OF	IVER 13	
01 A GROUNDWATER CONTAMINATION	02 D OBSERVED (DATE:	_) SPOTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		- ACCEPTED
	1		
Burial and/or land application of	dye wastes and/or various	s solvents.	
	02 C OBSERVED (DATE:	_) © POTENTIAL	SALLEGED
01 B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	_/ L POIENIAL	XXXXX
Discharge of various solvents doc	umented. Check for dve wa	astes also.	
production of various convenes and			
01 T C CONTAMINATION OF AIR	02 C OSSERVEDIDATE:	_) S POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:		_) UPUIENIAL	E ALLEGED
Not suspected at this time.			
01 C D. FIRE/EXPLOSIVE CONDITIONS	02 C OBSERVED (DATE:	_1 G POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	=	_) Drotestine	LI ALLEGED
Not appared at this time			
Not suspected at this time.			-
01 SE DIRECT CONTACT	02 C OBSERVED (DATE:	_) SPOTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
	04 NARRATIVE DESCRIPTION		
03 POPULATION POTENTIALLY AFFECTED:			
03 POPULATION POTENTIALLY AFFECTED:			
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land appli	cation or burial.	DI-POTENTIAL	C ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application of soil of AFEA POTENTIALLY AFFECTED:) DPOTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application of SOIL	cation or burial.) DEPOTENTIAL	□ ALLEGED
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land appli O1 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: (Acres)	cation or burial.	_) DEPOTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application of soil of AFEA POTENTIALLY AFFECTED:	cation or burial.	_) DEPOTENTIAL	□ ALLEGED
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land appli O1 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: (Acres)	cation or burial.	_) DEPOTENTIAL	□ ALLEGED
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application. O1 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: (Acres) In areas of land application.	Cation or burial. 02 OBSERVED (DATE:		
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land appli O1 F. CONTAMINATION OF SOIL O3 AREA POTENTIALLY AFFECTED: (Acres)	cation or burial.	_) DOTENTIAL	☐ ALLEGED
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application of solucion areas of land application. O3 AREA POTENTIALLY AFFECTED: (Acres) O3 C DRINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	_) DECOTENTIAL	□ ALLEGED
O3 POPULATION POTENTIALLY AFFECTED: Effluent discharge and land application of solucion areas of land application. O3 AREA POTENTIALLY AFFECTED: (Acres) O3 C DRINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION 02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	_) DECOTENTIAL	□ ALLEGED
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STATE OF NORTH CAROLINA

JAMES B. HUNT, JR.

DEPARTMENT OF HUMAN RESOURCES Division of Health Services

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SARAH T. MORROW, M.D., M.P.H.

P. O. Box 2091

Raleigh 27602

Ronald H. Levine, M.D. Acting Director

August 18, 1981

Mr. T. A. Alspaugh Cone Mills Corporation White Oak Plant 2420 Fairview Street Greensboro, NC 27405 NCD 000 7769/4

RE: Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this departments understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist Solid & Hazardous Waste Management Branch

Environmental Health Section

WP:1c

cc: Mr. Joe Deakins

Mr. Steve Phibbs

Mr. Jim Moore

Mr. Rick Doby

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

August 5, 1981

Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602



Re: PCB Transformer Blowup Cone Mills Corporation Salisbury Plant Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gooves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top 1" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.



Mr. William Pai Page 2 August 5, 1981

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh, NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

Sincerely,

Childe fill-

T. A. Alspaugh/ Manager, Water & Air Resources

crn

cc: Mr. Lee Clyburn, Plant Engineer

Mr. Graham Knight Mr. Arthur Toompas

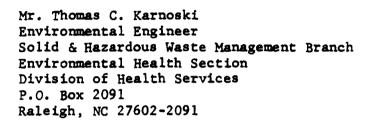
Mr. Rick Doby, State of NC Engineer

CONE MILLS CORPORATION

CALL

GREENSBORO, N. C. 27405.

February 28, 1983



Re: Hazardous Waste Management Permit Application Cone Mills Corporation White Oak Plant Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone converation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

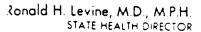
We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

Manager, Water & Air Resources

lt

cc: Mr. Garland Coffer Mr. Arthur J. Toompas







DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

12

Tom A. Alspaugh Cone Mills White Oak Plant 4100 Pleasant Garden Road Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.



Tom A. Alspaugh Page 2 July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch Division of Health Services P. O. Box 2091 Raleigh, NC 27602

Very truly yours,

Solid & Hazardous Waste Managment Branch

Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



North Carolina Department of Human Resources Division of Health Services P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H. State Health Director 919/733-3446

Mr. T.A. Alspaugh Cone Mills Corporation 2420 Fairview St. Greensboro, NC 27405 Date: April 29, 1985

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you, we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

•	· •		
•	Add As	Delete As	•
		X	generator
: · · · ·		•	transporter
	•		treater
•		·	storer
•	:		disposer
•	х		small generator
We are advising the EPA is any further change in Your EPA ID NO. is	your operations	which would aga	Please notify us if there ain affect your status. ed.
	Cord	ially,	· .
	•		

Keith Lawson, Environmental Chemist Solid & Hazardous Waste Management Branch Environmental Health Section

cc: Doug McCurry
EPA Region IV
Emil Breckling

NORTH CAROLINA DEPARTMENT OF CONSERVATION AND DEVELOPMENT R. BRUCE ETHERIDGE, Director

DIVISION OF MINERAL RESOURCES
JASPER L. STUCKEY, State Geologist

BULLETIN NUMBER 55

Geology and Ground Water IN THE Greensboro Area, North Carolina

By
M. J. MUNDORFF

PREPARED IN COOPERATION WITH THE GEOLOGICAL SURVEY, UNITED STATES

DEPARTMENT OF THE INTERIOR

RALEIGH 1948

ABSTRACT

The Greensboro area is in the north-central Piedmont of North Carolina and includes Alamance, Caswell, Forsyth, Guilford, Rockingham, and Stokes Counties.

The area includes 2,975 square miles and had a population of 438,404 in 1940.

The area lies entirely within the Piedmont province, which is characterized by flat to rolling upland surfaces, separated by stream valleys, with a few scattered monadnock hills.

Except for a belt of sandstones and shales along Dan River, the area is underlain by igneous and metamorphic rocks, consisting chiefly of gneiss, schist, slate, and granite.

Wells drilled in greenstone schist have a considerably higher average yield than wells in any other rock unit. The average yield of municipal and industrial wells in this rock is 55 gallons a minute. In granite, gneiss, and the Triassic sandstones and shales, the average yield of municipal and industrial wells is 33 to 35 gallons a minute.

Topographic location has an important bearing on the amount of water yielded by wells. The average yield of wells drilled in draws and valleys is more than 3½ times greater than the average yield of wells drilled on hills. It is probable that draws and valleys mark the location of sheared and fractured zones in which the rocks are saturated with water, whereas hills occupy areas of massive, unbroken rock which contain, and will yield, relatively little water.

Wells drilled where the weathered mantle is thick generally yield larger supplies than those drilled where it is thin.

The yield per foot of well generally decreases with depth and beyond 250 feet drops quite sharply, indicating that it is usually not advisable to drill beyond that depth if the well has not obtained water when it reaches that depth.

Included in the report are a number of tables showing the relation of yield to type of rock, to topographic location, and to depth of wells. The report includes a chapter on the ground-water resources of each of the six counties with tables of well data, chemical analyses, and well logs.

has the least. The greatest annual precipitation averaged over the entire area was 55.52 inches in 1929. The least annual precipitation averaged for the entire area was 29.75 inches in 1941.

The average annual snowfall is nearly 10 inches.

Temperature.—Records of the temperature are obtained by the U. S. Weather Bureau at Greensboro, Greensboro Airport, High Point, Reidsville, and Winston-Salem. In addition, records of temperature are available for Oak Ridge from 1890 to 1902 and for Saxon, Stokes County, from 1891 to 1914.

The mean annual temperature during the period of record at the five stations now being maintained is 58.8° F. The coldest month is January, with a mean temperature of 40.6° F.; and the warmest month is July with a mean temperature of 77.8° F. High Point is the warmest station, with a mean annual temperature of 60.2° F., and Winston-Salem and Greensboro Airport are the coldest stations with a mean annual temperature of 57.9° F.

The average date of the last killing frost in the spring is about April 12, and the average date of the first killing frost in the autumn is about October 25, leaving an average growing season of about 196 days.

DRAINAGE

The entire area is drained by three major drainage systems, the Yadkin, the Dan, and the Cape Fear. Most of the drainage of Forsyth County and the southwestern corner of Stokes County is into Yadkin River, which forms the western boundary of Forsyth County. The remainder of Stokes County and most of Rockingham and Caswell Counties is drained by Dan River. Most of Guilford County, all of Alamance County, the southern part of Rockingham County, and the southwestern corner of Caswell County are drained by Haw River. The southwestern corner of Guilford County is drained by Deep River, which combines with Haw River to form the Cape Fear. All these streams empty into the Atlantic Ocean to the southeast and south, but the courses of the individual streams within the area are diverse. The drainage pattern is largely controlled by the geology of the area.

PHYSIOGRAPHY

The Greensboro area lies entirely within the upland section of the Piedmont physiographic province which is an uplifted, submaturely to maturely dissected peneplane on more or less resistant rocks.¹ In the Greensboro area the upland surface, which generally slopes to the east and southeast, is interrupted by a number of monadnock hills, some of which rise nearly 1,500 feet above the surrounding peneplane remnants.

Igneous, metamorphic, and sedimentary rocks occur in the Greensboro area. The metamorphic rocks include gneisses, schists, slates, and quartzite; the igneous rocks include granites and diorites; the sedimentary rocks include conglomerate, sandstone, and shale of Triassic age.

The quartzites, and many of the gneisses and schists, have been derived from sediments. The bedding in these rocks, as well as the schistosity, strikes generally northeast-southwest. The igneous rocks intruded into them are generally elongated in the same direction and, where metamorphosed, the structural elements also strike northeast-southwest. The cleavage and bedding in the slates and the bedding in the Triassic sedimentary rocks strike in the same direction. As these rocks differ considerably in resistance to erosion, structural control of the topography is considerable.

At some time during the interval between the last part of the Triassic period and the first part of the Cretaceous period, the area was eroded to a low-lying plain of little relief, save for a few monadnock hills. Widely spaced trunk streams, meandering across the area, moved sluggishly in wide floodplains. There is little doubt that this peneplane sloped to the east and southeast and that the streams discharged into the Atlantic Ocean. Subsequently, the peneplane was uplifted and probably tilted slightly so that the southeastward slope was increased. The present altitude of the upland surface in the western and northwestern part of the Greensboro area is about 1,200 feet, whereas the altitude along the southeastern edge is about 500 feet. After the area was uplifted the streams began to cut down rapidly, forming narrow, steep-walled valleys. The main streams probably followed more or less the channels of the former streams, in many places, however, cutting off the old meanders and in general straightening and shortening the courses. Between these main streams some of the smaller streams followed parallel courses.

Fenneman, Nevin M., Physiographic divisions of the United States: Assoc. Am. Geographers Annals, vol. 18, no. 4, p. 290, 1928.

SOIL SURVEY OF

Guilford County, North Carolina



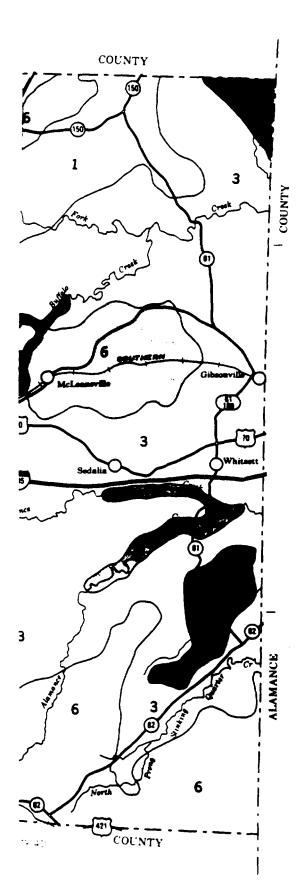


United States Department of Agriculture Soil Conservation Service

In cooperation with

Board of Commissioners, Guilford County, North Carolina, and North Carolina Agricultural Experiment Station

1



SOIL ASSOCIATIONS

CECIL-MADISON association: Gently sloping and sloping, well drained soils that have a sandy clay loam, clay loam, and clay subsoil; on uplands.

MADISON-CECIL association: Strongly sloping to steep, well drained soils that have a sandy clay foam, clay foam, and clay subsoil; on uplands.

ENON-MECKLENBURG association: Gently sloping and sloping, well drained soils that have a sandy clay loam, clay, and clay loam subsoil; on uplands.

WILKES-ENON association: Stoping to steep, well drained soils that have a sandy loam, clay loam, sandy clay loam, or clay subsoil; on uplands.

CORONACA-MECKLENBURG association: Gently sloping and sloping, well drained soils that have a clay or clay loam subsoil; on uplands.

APPLING-VANCE-HELENA association: Gently sloping to sloping, well drained and moderately well drained soils that have a sandy clay loam, sandy clay, clay, and clay loam subsoil; on uplands.

CHEWACLA-WEHADKEE-CONGAREE association: Nearly level, well drained to poorly drained soils that have a sandy loam, loam, silt loam, clay loam, and silty clay loam subsoil; on flood plains.

Compiled 1976

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

GUILFORD COUNTY BOARD OF COMMISSIONERS

NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION

GENERAL SOIL MAP

GUILFORD COUNTY, NORTH CAROLINA

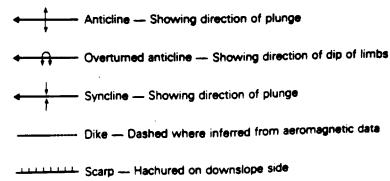
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	("Server 2021)	
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nd hornbiende gneiss		METAMURCTONS AND ASST
; megacrystic, abun-		ding plane and axial-planar cleavage common interhold bad-
and gradational with		John John Med Chil
hist, and amphibolite		C7md - Crd Formation
		CZmd ₁ - Tillery Formation (southwest of Asheboro)
afic tuffs and flowrock		MAFIC METAVOLCANIC ROCK — Metamorphosed basaltic flows and tuffs, dark green to black; interbedded with false and the same
d basaltic to andesitic		tuffs, dark green to black; interbedded with felsic and intermediate metavolcanic rock and metamudstone
includes hypabyssal		CZmv ₁ - Cid Formation (southwest of Asheboro)
and allowed and absorble a	CZtv	FELSIC METAVOLCANIC ROCK — Metamorphosed dacitic to rhyolitic
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i manc and intermedi-		
andalusite, kyanite, or		CZfv ₁ - Uwharrie Formation (at Asheboro and to south)
d sillimanite; includes		INTERMEDIATE METAVOLCANIC ROCK — Metamorphosed andesitic tuffs and flows, medium to dark grayish green; minor felsic and mafic metavolcanic rock
		METAVOLCANIC ROCK — Interbedded felsic to mafic tuffs and flowrock
	Mark. LACK	
		METAVOLCANIC-EPICLASTIC ROCK — Metamorphosed argillite, mud- stone, volcanic sandstone, conglomerate, and volcanic rock
65-325 my; 11,9) — tonic Suite (Western		VOLCANIC METACONGLOMERATE — Includes metagraywacke and
trusives		metamudstone
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404		and schist (EZbg)
ian, 404 my; 9) — In-		
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	<u>/-br</u>	INTRUSIVE ROCKS DIABASE — Dikes, gray to black
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National Water Summary 1984

Hydrologic Events, Selected Water-Quality Trends, and Ground-Water Resources

By United States Geological Survey

United States Geological Survey Water-Supply Paper 2275

Table 2. Aquifer and well characteristics in North Carolina

[Ft = feet; gal/min = gallons per minute; mg/L = milligrams per liter. Sources: Reports of the U. S. Geological Survey and the North Carolina Department of Natural Resources and Community Development]

		Well cha	racteristics		
Aquifer name and description	Dept	h (ft)	Yield (g	al/min)	Remarks
·	Common range	May exceed	Common range	May exceed	
Surficial aquifer: Sand, silt, clay, and gravel. Generally unconfined or partially confined.	40 - 65	175	25 - 200	500	Important aquifer in Sand Hills, northeast North Carolina, and Outer Banks. Water only slightly mineralized, except at depth in coastal areas where it is salty. Iron problems common. Equivalent to Columbia aquifer in Virginia.
Yorktown aquifer: Sands and clay. Partially confined or confined.	50 - 150	190	15 - 90	500	Includes Yorktown Formation and minor sands in Pungo River Formation. Important aquifer in northern Coastal Plain. Water is salty in coastal areas. Iron problems common. Equivalent to Yorktown-Eastover aquifer in Virginia.
Castle Hayne aquifer: Limestone, sandy limestone, and sand. Generally confined.	70 - 200	400	200 – 500	2,000	Includes Belgrade and River Bend Formations, Castle Hayne Limestone and Beaufort Formation. Castle Hayne Limestone is major aquifer in eastern Coastal Plain. Iron and hydrogen sulfide are problems near aquifer's western limit. Water is salty at depth near coast.
Cretaceous aquifer: Sand, clayey sand, and clay. Confined.	100 - 600	800	200 400	1,400	Includes Peedee, Black Creek, and Cape Fear Formations. Most widely used aquifer in Coastal Plain. Water has low mineral content. Iron problems common. Water is salty at depth in eastern Coastal Plain. Equivalent to Potomac aquifer in Virginia and Black Creek and Middendorf aquifers in South Carolina.
Crystalline rock aquifer: Crystalline igneous, metasedimentary and metavolcanic rock. Semiconfined to confined.	75 - 200	300	5 – 35	200	Large well yields dependent on interception of fractures; sustained yields dependent on thickness of saturated regolith overlying fractured-rock aquifer. Dissolved solids average about 170 mg/L. Water slightly acidic and may be corrosive. Locally high in iron and silica.

water corrosive. The aquifer generally is unconfined to partially confined throughout most of the Coastal Plain, but where it is more than 50 ft thick, water usually is confined in the deeper parts due to differences in lithology.

YORKTOWN AQUIFER

The Yorktown aquifer is present at shallow depths in the northern Coastal Plain. A few high-producing wells tap the Yorktown. Elizabeth City in Pasquotank County draws 1.3 Mgal/d from a well field that taps the aquifer. Water in the Yorktown aquifer generally has dissolved-solids concentrations of less than 500 mg/L and hardness of less than 300 mg/L as calcium carbonate.

CASTLE HAYNE AQUIFER

The Castle Hayne aquifer is the most productive aquifer in North Carolina. Wells that yield more than 1,000 gallons per minute (gal/min) can be readily developed in this aquifer and yields may exceed 2,000 gal/min. The Castle Hayne is the major source of freshwater in the southeastern coastal area where nearly all other aquifers contain some saltwater. Water from the Castle Hayne aquifer usually has a hardness ranging from 80 to 300 mg/L as calcium carbonate (Wilder and others,

1978) and requires treatment for some uses. It commonly contains concentrations of silica higher than 50 mg/L. The aquifer generally is confined, except near its western limit where it is unconfined or partially confined.

CRETACEOUS AQUIFER

The Cretaceous aquifer is the principal aquifer in much of the central and southern Coastal Plain. The aquifer has only moderate hydraulic conductivity but is very thick. For this reason, a number of well fields in the Cretaceous aquifer are able to produce more than 1 Mgal/d. Water from the Cretaceous aquifer typically is soft with hardness commonly less than 20 mg/L as calcium carbonate. The water occasionally contains concentrations of fluoride higher than 1.5 mg/L, the maximum limit for public supplies in this area. The aquifer is confined throughout its areal extent.

CRYSTALLINE ROCK AQUIFER

The crystalline rock aquifers of the Piedmont and Blue Ridge provinces consist generally of fractured crystalline igneous and metamorphic rock that has low porosity and, therefore, little storage capacity. Well yields are sustained by water stored in the saturated regolith that overlies the frac-

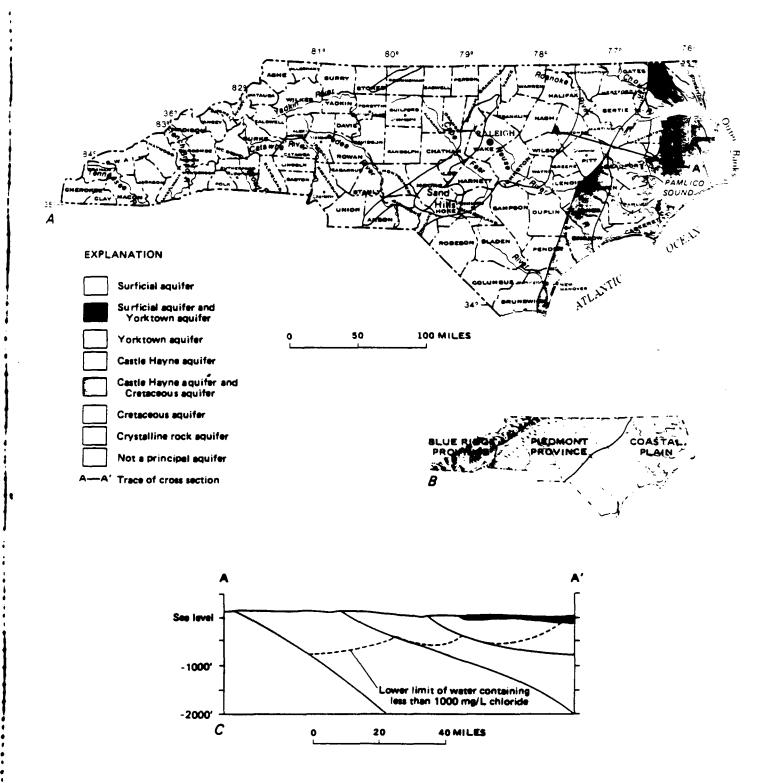


Figure 1. Principal aquifers of North Carolina. A, Geographic distribution. B, Physiographic diagram and divisions. C, General-ized cross section (A-A'), Coastal Plain. (See table 2 for more detailed description of aquifers. Sources: A, C, compiled by R. W. Coble from U.S. Geological Survey and North Carolina Department of Natural Resources and Community Development files. B, Fenneman, 1938; Raisz, 1954.)

tured bedrock. Success in constructing high-yield wells in this terrane depends on interception of water-bearing fracture systems that are overlain by saturated regolith. The chance of intercepting interconnected fractures is greatest in valleys and draws and least on ridges and hilltops. The average yield of wells in the crystalline rock is low-about 10 to 25 gal/min; however, yields of 200 gal/min or more are common. Water from the crystalline rock has a dissolved-solids concentration that is commonly about 170 mg/L and rarely exceeds 250 mg/L. Hardness generally is less than 100 mg/L as calcium carbonate. Because of the low buffering capacity of the water, corrosion can be a problem where the dissolved-solids concentration is less than 100 mg/L, even though pH values range from 6.3 to 6.7.

OTHER AQUIFERS

Triassic basins within the crystalline rock terrane of the Piedmont are areas from which the principal aquifers are absent (fig. 1); these basins consist of downfaulted blocks of crystalline rock. The basins are filled with clay, silt, finegrained sandstone, and conglomerate, into which, in some places, basalt dikes have intruded. In this terrane, chances of constructing wells that yield more than a few gallons per minute are slight.

GROUND-WATER WITHDRAWALS AND WATER-LEVEL TRENDS

Major areas of ground-water withdrawals and water levels for selected observation wells near pumping centers are shown in figure 2. Generally, water levels decline in response to increases in pumping and recover when pumping is reduced. The hydrographs in figure 2 are representative of response of water levels to pumping in the Coastal Plain.

Water-level declines are not widespread in the surficial aquifer. Pumping 1 Mgal/d from a battery of shallow wells near Elizabeth City (near location 1, fig. 2) resulted in no measurable decline in water level in an observation well only 0.5 mile (mi) from the well field.

Only minor withdrawals are made from the Yorktown aquifer, which is readily recharged; thus, major areal waterlevel declines have not occurred in this aquifer. In the Belhaven area, withdrawals of 1.2 Mgal/d have resulted in less than 10 ft of decline in 16 years as shown by the hydrograph (location 5, fig. 2).

The largest ground-water withdrawals in North Carolina are from the Castle Havne aquifer to dewater one mine and three quarries. About 65 Mgal/d are withdrawn from the confined Castle Hayne aquifer to reduce the artesian pressure. thereby facilitating dewatering of the overlying phosphate ore beds. Water levels in the Castle Hayne have declined 5 ft or more over an area of 1,300 square miles in response to this pumping (North Carolina Groundwater Section, 1974). The hydrograph for the Castle Hayne observation well, which is adjacent to the mining area (location 6, fig. 2), shows the rapid decline in water level when pumping began in 1965; stabilization of the water level was achieved in 1966 when the amount of induced leakage into the aquifer and a reduction in the amount of natural discharge from the aquifer compensated for the amounts of withdrawal. Changes in water level since the late 1960's are the result of fluctuating pumping rates and movement of the center of pumping as different parts of the ore body are mined. Other withdrawals from the Castle Hayne aquifer range from 11 to 18 Mgal/d at three quarries (locations 8, 11, 16, fig. 2). Because the Castle Hayne generally is unconfined in the area of the quarries, the geographic extent of the cones of depression is limited.

Widespread withdrawals from the Cretaceous aquifer have resulted in continuing declines in water levels in this aquifer throughout much of the Coastal Plain. The Cretaceous aquifer observation well (location 7, fig. 2) reveals that, after a well field was established near the observation well in 1968, water levels have declined more than 80 ft. Periods of water-level recovery and apparent stability are the result of short periods of decreased withdrawal rates. Water levels in the Cretaceous aquifer in the northern Coastal Plain have declined over an area of several thousand square miles in North Carolina because of withdrawals of 35 Mgal/d or more near Franklin, Va., 10 mi north of the State line. Declines near the line (location 26, fig. 2) have been as much as 45 ft since 1966 and are estimated to be as much as 100 ft since the early 1940's when extensive withdrawals began.

Water-level declines because of withdrawals from the crystalline rock aguifer are not widespread. Water pumped from the aquifer is supplied from the saturated portion of the overlying regolith. Recent research shows that withdrawals from the crystalline rock aquifer are reflected in local cones of depression in the overlying regolith (Daniel and Sharpless, 19831.

GROUND-WATER MANAGEMENT

The North Carolina Department of Natural Resources and Community Development (NRCD) implements most of the regulatory and planning procedures related to groundwater resources in the State. The Division of Environmental Management (DEM) within NRCD, has the major responsibility for ground-water management and regulatory programs. The Environmental Management Commission has authority over the permitting process and has made the Groundwater Section of DEM directly responsible for issuing permits for well construction and ground-water withdrawals. The Commission may designate an area as a Capacity-Use Area whenever the renewal and replenishment of the ground-water supplies are believed to be threatened. To date, the Commission has established only one such area in east-central North Carolina. However, additional areas are being considered for Capacity-Use Area designation.

A permit must be obtained from the Groundwater Section of DEM for (1) the construction of public-supply, industrial, and irrigation wells, (2) wells with a designed capacity of 100,000 gallons per day (gal/d) or greater, (3) wells to be used for injection, recharge, or disposal purposes, and (4) a well, other than a domestic well, located in a designated Capacity-Use Area (North Carolina Well Construction Act of 1967, Article 7-87-88). Injection wells for waste-disposal purposes currently are prohibited by State statute. All well drillers must register annually with NRCD and are required to report all

well completion and abandonments.

In addition to a water-use permit in Capacity-Use Areas for users withdrawing more than 100,000 gal/d, NRCD also may require these users to adhere to established maximum withdrawal rates; the agency also can establish the minimum water levels resulting from pumping in certain areas.

The NRCD Division of Water Resources (DWR) collects data on the use of ground water statewide through its wateruse data program. The DWR includes ground water in special regional or river basin water-resources studies with primary emphasis on the availability of ground water to meet watersupply needs for municipal and industrial use and for agricultural irrigation. The DWR also provides technical assistance to local government water utilities in considering ground water as a source of supply for public-water systems. Technical information on ground water is also available through the Guilford County, N.C., Service Area Map (Water and Sewer). 1979, Revised August 24, 1987.

(Large map. On file at NUS Corporation.)

NUS CORPORATION AND SU	IBSIDIARIES	TELECON NOTE
CONTROL NO. F4-8803-58	DATE: May 9, 1988	TIME: 3:00 p.m.
DISTRIBUTION:		
Glass, E. H. Co. Landfill Cone Mills Corp White Oak Plant		
BETWEEN: Don Grubbs	OF: Guilford Co. Water Dept. Greensboro, N. C.	PHONE: (919) 373-2055
AND: Joan Dupont, NUS Corporat	jean Dupont 5/9/8	eg
DISCUSSION:		
Water is also provided by the coucity limits are not required to be hout which residents were not hooled. From the dam at Lake Townsend whether areas north of Guilford's septic tanks. Residences along so water service areas immediately residences.	o, approximately 99.9% of the people a nty in its service areas outside the city ooked up to the water and sewer lines. ked up, other than going through indivi- l, Guilford County's water service lines service areas (i.e., south of Lakes Town ervice area boundary lines are served north of Guilford County's water service	limits; however, residents outside the Mr. Grubbs did not know how to find dual account records. s go south. Mr. Grubbs was not sure nsend and Jeannette) are on wells and by county water. There are no other
	sville, in Rockingham County. led Richland Lake, among other nan ed by the company as a residential area	
	boro area are approximately 150 feet of pand supplies good water. He did not	

NUS CORPORATION AND SUBSID	NAMES	I ELECON NOTE
CONTROL NO. TDD No. F4-8803-58	DATE: May 25, 1988	TIME: 11:15 a.m.
DISTRIBUTION: Glass, E. H. County Land Cone Mills Corp., Whit		
BETWEEN: Rev. McLean Faw	OF: Memorial Presbyterian Church Greensboro, N. C.	PHONE: (919) 621-3220
AND: Joan Dupont, NUS Corporation	Jean Dupont 5/25	5/83
DISCUSSION:		
located at 2116 McKnight Mill, near Cond northeast of Cone Blvd.		ses nwy. 23 idol (II), the thurth is
ACTION ITEMS:		
The U.S.G.S. Quadrangle for McLeansville North Buffalo Chapel located in the same the 1987-1988 Greensboro telephone dir occupies the North Buffalo Chapel prope	e area indicated above; however, Nort ectory. It is possible that the Memoria	h Buffalo Chapel is not listed in

NUS CORPORATION SUPERFUND DIVISION

PROJECT NOTES

TO: Cone Mills, White Oak File

DATE: June 23, 1988

FROM: Joan Dupont

SUBJECT: Public water supply wells within 4 miles of Cone Mills Corp., White Oak Plant

REFERENCE: TDD No. F4-8803-57

The locations of active community and non-community public water supply wells (PWS) within four miles of the White Oak Plant were determined by using the following references:

North Carolina Department of Human Resources, Environmental Health Section, Water Supply Branch. Alphabetical within County Listings of Active Community and Non-Community PWS for Guilford County, 11/19/87.

Map of City of Greensboro, North Carolina, 1985.

U.S.G.S. Topographic Quadrangles for North Carolina: Browns Summit (1951, Photorevised 1968), McLeansville (1952, Photorevised 1968), Greensboro (1951, Photorevised 1968), and Lake Brandt (1951, Photorevised 1968). 7.5 minute series.

Distance from Site	PWS Name	Address	Population Served
within 1 mile	None		
within 2 miles	Memorial Presbyterian Church	2116 McKnight Mill	75
within 3 miles	None		
within 4 miles	None		
outside 4 miles	Country Club MHP	3820 McConnell Road	500
i	McConnell Road Texaco	I-85 & McConnell Road	100
	Industrial Plastics	McConnell Road & I-85	80
	Mt. Pleasant Church Daycare	Rt. 6 Box 469-C	70
	Madison Elementary School	3600 Hines Chapel Road	490
	Lebannon Baptist Church	Hicone Road	25
	Poplar Grove Elementary	5500 Summit Avenue	190
	Sharpe Road Baptist Church	1908 Sharpe Road	275
	Reedy Fork Baptist Church	4718 Yanceyville Road	500

	·	ALPHARECITCAL WITHIN CO	DONLY ELSTING OF HELL	AE COUNDITION . A	•			•		
PWS NAME	PWID	RES NAME	ADDRESS	CITY	219	1	A	POP.SRV	\$	PHONE
ARVAN TRAILER PARK	0241102		5505 (b) (6)	JAMESTOWN	27282	C	4	147	6	(b) (6)
AUTUMN FOREST MOBILE HOM	0241103	(b)	(5) (5)	AROWNS SUMMI	27214	C	A	716	6	
SON AIRE ACRES SUBD	0241193	(8)		GREENSBORO	27407	€	A	112	6	
BOVER'S MEMORIAL REST HO		(6)		GREENSBORO	27406	Ċ	A	50	6	
BRADY'S MOBILE HOME PARK	0241104			GREENSBORO	27406	Ċ	A	77	6	
CEDAR PARK HHP	0241105			GREENSBORO	27405	C	A	130	6	
CEDAR VALLEY MHP	0241152	•		SREENSOORO	27416	C	A	298	6	
CIRCLE M MHP	0241106			SUMMERFIELD	27358	C	A	312	G	
CLAPP'S NURSING CENTER	0241577		,	PLEASANT GAR	27313	C	A	58	6	
COUNTRY CLUB MMP	0241143	- 		GREENSBORG	27405	€	A	500	6	
COUNTRY LIVING MMP	0241114			HIGH POINT	27260	£	A	8.8	6	
COUNTRY SIDE MANOR	0241120			STOKESDALE	27357	Č	Ā	105	6	
COUNTRYSIDE -	-0241191-			GREENSSORO	27407	ě	Ā	70	ě	
COUNTRYSIDE VILLAGE RET	0241192			STOKESDALE	27357	č	Ā	25	Š	
CROWN MMP	0241112			GREENSBORO	27407	č	Ā	305	Š	
-GARBLES HHP	0241107			GREENSOORO	27406	ě	•	172	Ğ	
GIBSONVILLE TOWN OF	0241025			FIBSONVILLE	27249	č	Ā	3,887	Ē	
GORDON'S TR PK	0241110			GREENSBORG	27409	ē	~	42	_	
GREENSBORD CAMPBROUNDS 1	0241500			GREENSOORO	27486	è	7	252	-	
GREENSOORO, CITY OF	0241010			GREENSBORO	27402	č	7	170,000	Š	
GUILFORD COUNTY PRISON F	0241583			GIBSONVILLE	27249	č	7	75	Ē	
GUILFORD COUNTY SUBSIDAR	-0241109-			MELEANSVILLE	27301	ě	7	346	ē	
GUILFORD COUNTY SUBSIDIA	0241188			HIGH POINT	27260	•	7	200	ě	
				GREENSBORD	27404	č	-	74	•	
HADLEY HHP	0241113			GREENSBORD	27402	,	7	399	-	
- HICKORY RUN-MMP	0241111			GREENSBORO	27410	č	-	240	6	
HIDDEN VALLEY MHP	0241114				27261		7	68,000		
HIGH POINT CITY OF	0241020			HIGH POINT	27407	•	7	182	2	
- HOLLOAY - HILLS	0241117		··	GREENSBORD		Č	-	2,250	Š	
JAMESTOWN, TOWN OF	0241030	7		JAMESTOWN	27282	-	7			
JONES MAP	0241119			GREENSTORO	27406	Č	~	88	_	
LAKE VILLAGE WATER SYSTE-	0241164-			HICH POINT	27263	Ç	7	35	ě	
LAKEVIEW TR PK	0241121			GREENSHORO	27406	C	•	96	ě	
LAKEWOOD TRAILER PARK	0241122			PLEASANT GAR	27313	Č	M	105	6	
LITTHAN'S MODILE-HOPE CO-				GREENSBORG -	27404	•	~	102	6	
MEADOWYIEW MHP	0241125			SUMMERFIELD	27358	Ę	7	147	-	
MONROE'S MHP	0241124			GREENSBORO	27406	ŗ		203	é	
MONTICELLO ESTATES	0241154			GREENSOORO	27407	Ç	•	277	6	
O'HENRY MHP	0241128			GREENSBORO	27406	Ç		75	6	
OAK RIDGE MILITARY ACADE	0241539)	OAK RIDGE	27310	C	A	205	6	
	- 0241134 -			GREENSBORD .	27402	6	A	53	6	
PHH RENTALS MHP	0241135			GREENSBORO	27407	C	A	64	6	
QUAIL MEADOWS	0241136		≥	GREENSBORO	27407	C	Ā	72	6	
ROCKCREEK THY	0241137			WHITSETT	27377	C	A	700	6	
SHADY LANE POBILE COURT	0241151			GREENSBORO	27405	C	A	90	6	
WALKER ESTATES	0241144			GREENSBORD	27407	C	A	70	6	
WARD'S MOBILE HOME PARK	-0241145	-		GREENSBORO	27404	•	A	60	6	
WILLARDS TP	0241147			GREENSBORO	27406	C	A	60	6	
WOOLARD'S TRAILER PARK	0241150			GREENSBORO	27406	C	A	91	6	

Reference No. 22

F T D 11/1

DHR - ENVIRONMENTAL HEALTH SECTION - WATER SUPPLY BRANCH ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE COMMUNITY PWS

PWS NAME

PWID

RES NAME

ADDRESS

CITY

ZIP T A POP.SRV S PHONE

COUNTY =041 NUMBER OF RECORDS =

49

TOTAL POPULATION =

251,705

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PWS NAME	PWIO	RES	NAME	ADDRESS	CITY	ZIP	7	A	POP.SRV	s			
AIR HARBOR AIR PORT	0241487				GREENSHORO	27406	N	A	30	4			ı
ALAMANCE COPMUNITY FARK	9241497				SREENSBORD	27406	N	Ã	źš		7	-	,
ALAMANCE MIDDLE SCHOOL	0241541				SPEENSBORO	27406	N	Ä	1.080			-	
ALLEN DISPLAYS INC	0241468				GREENSOORO	27409	N	Ā	75	•			
ANDREWS MEMORIAL BAPT CH	0241438				BROWN SUMMIT	27214	N	Ä	70	ē			
ARNOLD STONE CO	0241469				COLFAX	27402	Ä	Ā	65	ē			
BALLINEER ACADERY	0241547				GREENSBORD	27410	Ñ	~	75	ē		i	
BANNER PHARPACY	0241552				STOKESDALE	27357	N	~	100	Ğ		31	
BARBARA'S COUNTRY KITCHE	0241623				GREENSBORD	27406	-	7	140	Ē		É	
	-0241547-				GREENSBORD	27410	-	~	109	ě			
BEL AIRE SANDVICH SHOP	0241558				GREENSBORD	27410	-	7	75	Ğ			
BETHEL PRESETTERIAN CH	0241422				MCLEANSVILLE	27301	-	~	150	Ğ			
	-0241470				STOKESPALE	27357	-	2	170	è			
BONNIE KAY SEAFOOD	0241559				GREENSBORD	27406	-	7	400	Ğ			
BOREN CLAY PRODUCTS	0241471				PLEASNY GARD	27313	ä	7	80	6			
BRIGG'S MEMORIAL BAPTIST	- 0241423 -		<u> </u>		HELEANSVILLE -		=	7	400	ě	i		
BRIGHTWOOD BAPTIST CHURC	0241621				GREENSBORO	27405	-	Ā	182	6			- (
BRIGHTWOOD CHRISTIAN SCH	0241411				GREENSBORO	27405	-	~	60	ë		.	,
	0241406				WHITSETT	27249	=	7	75	ĕ			
PRICHTWOOD INN	0241410				BROWN SUMMIT	27214	Ä	Ā	280	Ğ	1		
BROWN SUMMIT SCHOOL						27410	N		1,400	-			
BUR MILL COUNTRY CLUB	0241560				GREENSBORO	27557		A	206	-		. 2	
BURLINGTON INDUSTRIES F					STOKESDALE SUMMERFIELD	27358	N	Ā	75	-		سير	
CALVARY BAPTIST CHURCH	0241437					27406	=	Ā	45	•			
CALVARY CHRISTIAN CHURCH	0241444				GREENSBORG	27214	-	-	100	6			
CAMP HERMAN BAPTIST CHUR	0241445				GREENSHORD			7	175	•			
CAMP UWHARRIE	0241624				JAMESTOWN	27282	N	A	:	_			
CARLSON FARPS COUNTRY CL	0241544				GREENS JORO	27408	N	A	700 90	6		2	
CAROLINA STEEL CORP-COLF-					GREENSBORO	27420		•		-			
CECIL'S PLACE	0241566				RANDLEMAN	27317	M	-	75	6			
CEDAR CREST GOLF COURSE	0241504				MCLEANSVILLE	27301		7	80	ē			
CEDARHOOD SHIMMING POOL -	0241492			<u> </u>	JAMESTOWN	27282	Ħ	۸	240	6			
CENTER UNITED MENTODIST	0241440				GREENSBORO	27406	N	-	160	ě			
CENTRE FRIENDS MEETING	0241424				GREENSTORO	27406		A .	300	6			
CH OF JESUS CHRIST LAT D	0241549 -			•	COLFAN	27235	=	•	340	6			
CHARITY SAPTIST CHURCH	0241452				GREENSBORO	27410			140	ē			
CHURCH OF GOD OF PROPHEC	0241625				HIGH POINT	27260		7	500	6			
COLFAX SCHOOL	0241409				COLFAN	27235			415	6			
COMPUNETY BAPTIST CHURCH	0241439				GREENSBORO	27406	N	•	150	6		إ	1
COMPUNITY FOOD STORE	0241626				SUMMERFIELD	27358	N	•	100	6		ī	(
COMPUNITY IN CHRIST PRES					GREENSOORO	27406		À	252	6			
CONCORD FRIENDS MEETING	0241515				GREENSBORD	27404	N	A	25	6			
COUNTYLINE TEXACO	0241601				REIDSVILLE	27320	N	A	55	6			
CROSS OF CHRIST LUTPERAN	0241426				GREENSBORO	27410	Ħ	A	125	•			
DANIEL R HOUBS R D	0241488				GREENSBORO	27406	N	A	50	6			
DAWN ACRES GOLF COURSE	0241506				STOKESDALE	27357	N	A	25	6			
DEEP RIVER GOLF COURSE	0241500-				GREENSBORG	27489	N	A	25	6			
DIXON CHILD CARE	0241627				BROWN SUMMIT	27214	N	A	25	6			
E K'S TOUCH A COUNTRY	0241574				GREENSBORO	27406	N	A	50	6			
EASTERN GUILFORD SCHOOL	0241409				GIBSONVILLE	27248	N	A	750	6			
												_	

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LONGVIEW GOLF COURSE

MCCGNNELL RD TEXACO

LUTHERAN CH OF THE RESUR-

LYNGOOD LAKES BAPTIST CH

MADISON ELEPENTARY SCHOO

0241511

0241443-

0241522

0241611

0241594

ALPHABETICAL WITHIN COUNTY LISTING OF ACTIVE NON-COMM PWS CITY ZIP PHONE PWS NAME PWID RES NAME ADDRESS T A POP.SRV S HIGH POINT 9541435 27260 100 EASTERN NILLS CHRISTIAN N 0241628 HIGH POINT 27260 N A 700 6 ELKS CLU3 # 1155 0241494 HIGH POINT 27263 N 25 6 FAIRFIELD GOLF COURSE A FAITH WESLEYAN-CHURCH PA- 0241629 27406 N GREENSSORO 100 6 A 27357 FAMILY DINING 0241554 STOKESDALE 50 6 0241586 GREENSOORO 27415 80 6 FELLOWSHIP HALL -PELLOWSHIP PRESBYTERIAN --- 0241446 GREENSAGRO 27418 6 100 FIRST BAPTIST CHURCH SUMMERFIELD 27358 636 6 FLAT ROCK METHODIST CHUR 0241449 STOKESDALE 27357 A 50 6 HIGH POINT 27260 6 FLORENCE ELEMENTARY SCHO - 0241542 Ŧ . 250 A FOREMOST SCREEN PRINT DI 0241474 STOKESDALE 27357 × 150 6 **GREENSSORO** 27406 6 FOREST OAKS COUNTRY CLUB 0241561 A 1,100 27407 6 FREDRICKSON MOTOR EXPRES - 0241467 GREENS TORO . 100 0241459 FRIENDLY CHAPEL F & BAPT GREENSSORO 27401 • 30 6 27410 0241630 6 FRIENDLY RD INN **GREENSBORO** A 100 -FRIENDSHIP GULF-9241592 GREENSOORS 27406 150 6 GARDEN OF PRAYER HOLINES 0241458 BROWN SUMMIT 27214 A 30 6 GENERAL GREEN SCOUT RESE 0241490 BROWN SUMMIT 400 6 27214 BENES CORNER MART MONTECELLO 27214 A 180 • 6 GREENS SUPPER CLUB 0241563 GREENSBORO 27410 100 N A 6 GREGORYS DRIVE-IN 0241564 GREENSBORO 27405 N 80 75 6 -erogrefown-retheosst-chu---0241430-GREENSOORO 27407 0241591 27407 N 25 6 GROOMETOWN RD EXXON **GREENSOORO** GUILFORD COLLEGE BIOLE S 0241450 **GREENSBORO** 27410 250 6 27409 600 • GREENSBORG -A GUILFORD WILDLIFE CLUB 0241501 27402 50 6 GREENSBORO A HICKORY GROVE METH CH 0241447 GREENSBORG 27410 75 6 ---- HOGAN STONE PARK ----0241513 PLEASANT GAR 27313 A 400 6 MOUSE OF PRAYER 0241581 JAREST OWN 27282 A 32 6 I-45 TEXACO 0241400 27407 6 **CREENSBORD** 100 · 0241477-· · INDUSTRIAL PLASTICS ---27405 . A 60 6 GREENSOORO INDUSTRIAL TRUCK SALES 0241637 GREENSBORO 27402 N A 60 6 JAMESTOWN PARK GRILL 0241632 JAMEST OUN 27282 Ħ 25 6 6 ------ JAMESTOWN PRESOYTERIAN-C -- 4241454-JAMESTOWN 27282 155 JEFFERSON HOUSE 0241607 MCLEANSVILLE 27301 200 6 JESSUP GROVE BAPTIST CHU 0241429 GREENSBORD 27406 175 6 27486 DORKST MAILUL 0241602 JULIAN . 108 6 27298 LAKE JUNO PARK 0241498 LIBERTY 200 6 LARRY & FRANK'S DRIVE-IN 27317 0241565 RANDLEMAN 55 SUMMERFEELD 27358 350 LEBANNON BAPT CHURCH 0241520 GREENSBORG 27404 25 27405 N 100 6 LEES TRUCK STOP 0241549 GREENSBORD LOCUST GROVE BAPTIST CHE 0241416 BROWN SUMMIT 27214 N 300 6 27407 25 6 LONG'S REST HOME FOR THE 0241587 **GREENSBORD**

27410

27410

27406

27301

27405

GREENSBORO

GREENSBORD

GREENSBORO

GREENSBORO

GREENSBORD

-

N

N

75 6

100

490

100

40 6

ALPHARETICAL MITHIN COUNTY LISTING OF ACTIVE NON-COMM PMS

PWS NAME	PWID	RES NAME	(b) (6)	CITY	219	1	POP.SRV	s	PHONE
RENA BULLOCK ELEMENTARY	0241534	1		GREENSBORG	27406	N /	500	6	(b) (6)
RICHMOND ENGINEERING CO.	0241478			COLFAX	27235	N /	30	6	
AOSE CHILD DAY CARE	0241585			GREENSBORO	27410	N /	40	6	
SANDY RIDGE GOLF COURSE "	0241507			COLFAX	27235	N /	25	6	
SARAH RESTAURANT	0241556			KERNERSVILLE	27284	N /	25	6	
SCARLETTES SUNOCO	0241599			SUMMERFIELD	27355	N /	50	•	
SEDALIA ELEPENTARY SCHOO	0241531			RUR	27342	N /	370	6	
SEDGEFIELD LAKE METHODIS	0241448		r s	GREESNBORO	27407	N /	35	6	-
SEDGEFLELD PRESBYTERIAN	0241464		6	GREENSBORO	27407	N /	100	6	
SEDGEFILED SWIM-6 RACKET-	- 0241493 -	-		GREENSOORO	27407	N /	208	6	
SHADY GROVE WESLEYAN CAM	0241635			HIGH POINT	27262	N /	225	6	
SHARPE ROAD BAPTIST CHUR	0241463		1.5	GREENSBORD	27406	N /	275	6	
SHILLELAGH BOLF COURSE	- 0241512	-	•	BURL INGTON	27215	N (70	6	
SHINING LIGHT BAPT CH	0241518			GREENSBORO	27407	N /	25	6	
SMITH RICHARDSON FOUNDAT	0241571			GREENSBORO	27401	N /	70	6	
SOUTHEAST HIGH SCH	-0241530 -	- 		GREENSORG	27404		2-100	6	
SQUINEAST TRUCK STOP	0241550			CLIMAX	27233		100	6	
SOUTHERN GUILFORD WIGH S	0241529			GREENSBORO	27406	N /	956	6	
SOUTHERN LIPE CLUB	0241481 -			JAMESTOWN	27282	N /	40	6	
SOUTHERN PRIMARY SCHOOL	0241615			GREENSBORO	27405	N /	450	6	
SOUTHWEST ELEMENTARY SCH	0241617			HIGH POINT	27260	N /	325	6	
SOUTHWEST HIGH SCHOOL	- 0241414	-		HIGH POINT	27240		700	6	
STOKESDALE CHRISTIAN CHU	0241461			STOKESDALE	27357	N /	300	6	
STOKESDALE ELEMENTARY SC	0241528			STOKEDALE	27357	N /	258	6	
STOKESDALE UNITED METHOD	- 0241462 -			STORESDALE	27357	N 4	371	6	
SUMPERFIELD SO & REFRESH	0241604			SUMMERFIELD	27358	N 4	200	6	
SUMMERFIELD LUNCH & SHOP	0241603			SUMMERFIELD	27358	N I	50	6	
SUMMERFIELD MIDDLE-SCHOO-	- 0241 527 -			SUMMERFIELD	27358		495	-	
SUMMERFIELD U/METHODIST	0241442			SUMMERFIELD	27358	N A	300	6	
SUMMER BAPTIST CHURCH	0241440			GREENSBORO	27406	N /	100	6	
SUMMER HILLS GOLF CLUB	0241495			HIGH POINT	27263	N /	90	6	
SUMNER SCHOOL	0241525			GREENSBORO	27406	N /	800	6	
TABERNACLE UNITED METHOD	0241523			GREENSBORO	27406	N /	30C	6	
TRAVEL INN	- 0241404 - -	-	* * · · ·	GREENSBORO	27407	N /	50	6	
TRI CITY JUNIOR ACABERY	0241609			MIGH POINT	27262	R /	1 30	6	
TRIAD CATERING COMPANY	0241555			GREENS DORO	27409	# /	25	6	
TWIN DAKS GOLF COURSE	024 150 5			JAME STOWN	27282	N /	75	6	
TWIN OAKS PENTECOSTAL CH	0241420			# # # # # # # # # # # # # # # # # # #	27249		35	6	
UNION GROVE BAPT CH	0241418			OAK RIDGE	27824	# /	400	6	
-REA HTUBE LIO NOIMU	02 41514			GREEMSTORG	27419	N 4	25	6	
VANDALIA CHRISTIAN SCHOO	0241413			GREEMSBORO	27406	# /	320	6	
VANDALIA SCHOOL	0241412			GREEMSBORO	27406	N /	350	6	
VICKERY CHAPEL METH CH	0241519			GREEMSBORO	27407		40	6	-
VICKS BAR-B-Q	0241551			HIGH POINT	27260	# 1	25	6	
WEBSTERS KENCO SER	0241605			STOKESDALE	27357		25	6	
MOMANS CLUB OF HIGH POIN	0541636	-		HIGH POINT	27262		25	6	
MAZONE WIFEZ CO	0241479			GREENSBORO	27420	N /	96	6	

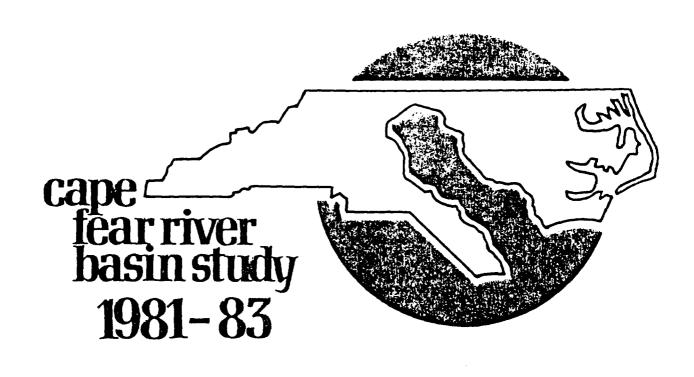
COUNTY =041 NUMBER OF RECORDS =

TOTAL POPULATION -

44,319

WOS CORPORA	TION AND SUB	ISIDIAKIES	TELECON NOTE
CONTROL NO. F4	-8803-58	DATE: May 26, 1988	TIME: 11:15 a.m.
DISTRIBUTION:			
Glass, E. H. County Cone Mills Corp., V			
BETWEEN: David	Moorefield	OF: Water Administration, Guilford Co. Water & Sewer De Greensboro, N. C.	PHONE: (919) 373-2055 pt.,
AND: Joan Dupon	t, NUS Corporatio	Joan Dupont	5/26/88
DISCUSSION:			
creek is usually sm mainly located wi Likewise, he felt t	all, except after rather than the city; he hat there are pro	ainfall. Although some parks are loc was not aware of any parks locat bably no parks along Buffalo Creek.	of Greensboro is used recreationally; the ated along North Buffalo Creek, they are led on the creek northeast of the city. Mr. Moorefield was not aware of any
creek is usually sm mainly located wi Likewise, he felt t drinking water into	all, except after rathin the city; he hat there are probakes east of Green er passing throug	ainfall. Although some parks are loc was not aware of any parks locat bably no parks along Buffalo Creek. nsboro on North Buffalo Creek or Bu	ated along North Buffalo Creek, they are ed on the creek northeast of the city.

GROUND-WATER SUPPLY POTENTIAL AND PROCEDURES FOR WELL-SITE SELECTION UPPER CAPE FEAR RIVER BASIN



GROUND-WATER SUPPLY POTENTIAL AND PROCEDURES FOR WELL: SITE SELECTION UPPER CAPE FEAR RIVER BASIN

CAPE FEAR RIVER BASIN STUDY

Sponsored by

North Carolina Department of Natural Resources and Community Development and U. S. Water Resources Council

> 1155 Archdale Building P. O. Box 27687 Raleigh, NC 27611

> > (919) 733-4064

October, 1983

The average saturated thickness is estimated to be 35 feet and specific yield is estimated to be 0.20; substituting these values into the above equation the total available ground water is about 1.5 billion gallons per square mile.

Because nearly all the storage in the Piedmont ground-water system is in the regolith, the saturated thickness used in the calculation is the saturated thickness of the regolith. The quantity of water stored in the bedrock is small, by comparison, and was ignored for this calculation. The depth of well casing used in open-hole wells approximates the regolith thickness at a given well. Table 1 lists, by topographic position, the average casing depths for selected wells (those yielding 50 gal/min or more) in the study area. The average depth of casing for all wells is about 50 feet, with the greatest depth beneath hilltops and the least in valleys. Water-level data from these same wells indicate that the average depth to the water table is 15 feet. Thus, the average thickness of the saturated regolith is about 35 feet (50 feet - 15 feet = 35 feet).

The specific yield of 0.20, used in the above storage computation, was taken from the relation for northeastern Georgia shown in figure 5 (Stewart, 1962). Specific yield is the ratio of the volume of water a saturated rock (or other material) will yield by gravity, to the total volume of rock. The distinction between porosity and specific yield is important; porosity indicates the total volume of pore space in the rock while specific yield refers to the volume of water which can be drained from the saturated rock. The two values are not equal because some water is retained within openings by surface tension and as a film on the rock surfaces. Sufficient similarities exist between the Piedmont of northeastern Georgia and central North Carolina that this information can be used with reasonable limits of confidence. The depth of weathering, lithology of the underlying bedrock, and geologic structures are similar for both areas.



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 1 - SITE LOCATION AND INSPECTION INFORMATIO

	IFICATION
OI STATE	DOULTTO TH

ACIA	PART 1 - SIT		D INSPECTION INFORI	MATION LNC	DOUCTT6711
II. SITE NAME AND LO					
O1 SITE NAME (Legal common	. · · · · · · · · · · · · · · · · · · ·	~		MECIFIC LOCATION IDENTIFIES	
Cone Hill (orp. White Ca	k Plant	12420 Fair	view Street	
1 /			1 1	1	07COUNTY 08 CONG CODE DIST
Greensbi	rij		NC 27405	Cuiltord	416
3606 30.	0794615	10 TYPE OF OWNERS (A. PRIVATE (I) F. OTHER	B. FEDERAL	. C. STATE D. COUNT	TY E. MUNICIPAL DWN
III. INSPECTION INFO	RMATION	03 YEARS OF OPERA			
01 DATE OF INSPECTION	02 SITE STATUS	1	earlier L	UNKNOW	
H 19, 88 MONTH DAY YEAR 04 AGENCY PERFORMING IN	ACTIVE RACTIVE		MINING YEAR ENDING YEA		··
04 AGENCY PERFORMING IN	CONTRACTOR NUS C	Fr D.	. C. MUNICIPAL D. I	MINNORAL CONTRACTOR	
E.STATE F.STAT	TE CONTRACTOR		G.OTHER	WORKERAL CONTRACTOR.	(Name of firm)
06 CHIEF HISPECTOR		Vame of fifty		(Specify) 07 ORGANIZATION	Too street
				j	08 TELEPHONE NO. 14041938-7710
('hris Br	own	Environr	nental Enginee	- NUS COPP.	12 TELEPHONE NO.
		i i		*	14041938-7710
Gus Shel	lman	Environr	nental Specialis	ST NUSCERP.	1907133-7710
					(-)
					()
					()
		1			()
13 SITE REPRESENTATIVES	NTERVENEO.	14 TTLE	16ADORESS		16 TELEPHONE NO
13 3178 REPRESENTATIVES					()
None - Offsi	te reconnaissance				()
					()
		<u> </u>			()
		 			()
		 			()
		 			
17 ACCESS GAMED BY (Cheef eng) PERMISSION WARRANT	10:30a.m.	19 WEATHER CON	DITIONS		
IV. INFORMATION AVA	LABLE FROM				
01 CONTACT		OZ OF (Agency/Organ	teles.		03 TELEPHONE NO.
Lee Crosb	Y	NC DE	15, Sol. FHaz. b	Jaste Mgt.Branc	N (919)733-2178
Joan J. Du	OR SITE INSPECTION FORM	OS AGIBICY	15, Scl. FHaz. W OB COMPANIZATION NUS Corporati	(404) 938-7710	G J3,88

3	EF	PA
\	اصا	,

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	IFICATION
01 STATE	02 SITE NUMBER
NC.	DCC 776914

	TATES, QUANTITIES, A			Tanana and			
DIPHYSICALS ☐ A SOLID ☐ B POWDI ☐ C SLUDG	STATES (Check of their county) C. E. SLUPRRY ER, FINES X F LIQUID LE C GAS	must (ITITY AT SITE I of state quantities to independent)	DE A. TOXIC D. B. CORROS D. C. RADIOA	CTIVE G. FLAM	BLE I I HIGHLY TIQUE I J. EXPLOS MABLE I K. REACTI	SIVE .
C D OTHER	·	CUBIC YARDS		(2 D. PERSIST	TENT X(H. IGNITA	BLE G L. INCOM	
	(Specify)	NO. OF DRUMS		<u> </u>			
II. WASTE 1	SUBSTANCE		Tay 22222 2222				
SLU	SLUDGE		OT GROSS AMOUNT	02 UNIT OF MEASURE	03 COLMIENTS		
OLW	OILY WASTE		†				
SOL	SOLVENTS		C C 15	 			·
PSD	PESTICIDES		Unknewn				
occ	OTHER ORGANIC C	HEMICALS	 				
ЮС	INORGANIC CHEMIC	ALS	 				
ACD	ACIO8		1				
BAS	BASES		<u> </u>				
MES	HEAVY METALS	_	Unknown				
. HAZARD	OUS SUBSTANCES (See A	sponds for most freque	ndy caled CAS Municipal			-	
CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DISP	OBAL METHOD	06 CONCENTRATION	OR MEASURE OF
50L	Unknown	vents		Suspected o	msite		
4ES	, , , , , , , , , , , , , , , , , , ,	netals		burial and	or land		
				application			
				creek cent	amination		
							
			†				
			·				
							
							
			 				
FEEDSTO	CKS (See Appendix for CAS Name		4	<u> </u>			<u></u>
CATEGORY	01 PERDETOC		02 CAS NUMBER	CATEGORY	01 FEEDSTO	ICK NAME	02 CAS NUMBER
FDS				FD6			
FDS				FD6			
FOS				FDS			
FDS			·	FDS			
SOURCE	OF INFORMATION (Case			 		·	
=17H a	nd State of	North (arolina ti	les			

⊋FPΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

01 STATE 02 SITE NUMBER

I. IDENTIFICATION

PART 3 - DESCRIPTION OF HA	AZARDOUS CONDITIONS AND INCIDENT	s LNC IV	COCH IS T
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 M A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 130	02 GOSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	
Dye wastes and/or solvents may and/or land application.	have been dispused of en	isite through	h burial
01 XB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 (I OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	2 POTENTIAL	ALLEGED
Discharge of solvents into on	nsite creak. NPDES pern	nit victati	J71 .
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
01 to 0. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: Wastes reported as ignitable	02 OBSERVED (DATE:) 04 NAMATIVE DESCRIPTION	S POTENTIAL	C] ALLEGED
01 X E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NAVIATIVE DESCRIPTION	Ж РОТЕНТИL	□ ALLEGED
In areas of possible land ap	splication of wastes.		
01 OF CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		ALLEGED
Wastes may have been disposition.	ed of onsite through bu		'er
01 E.G. DRINKING WATER CONTAMINATION 139	02 OGGERVED (DATE:) 04 NAMEATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
Through possible contamina	ation of groundwater.		.
01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
01 [] I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NAMEATIVE DESCRIPTION	CI POTENTIAL	C ALLEGED

⊕EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION

O1 STATE O2 SITE NUMBER

NO DOCCIO

L HAZARDOUS CONDITIONS AND INCIDENTS (Communication)	<u> </u>		
01 I J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:) POTENTIAL	□ ALLEGED
01 C K. DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION (Include name(s) of species)	02 - OBSERVED (DATE:) ☐ POTENTIAL	□ ALLEGED
1 C L CONTAMINATION OF FOOD CHAIN 4 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE:) C POTENTIAL	alleged
1 DXM. UNSTABLE CONTAINMENT OF WASTES (3-sty funof/Stanting figures, Leating drums) 3 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION		ALLEGED
NPDES permit violation; al	leged discharge of sch	vents into en	SI+E ('TEE
1 ON. DAMAGE TO OFFSITE PROPERTY 4 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:) □ POTENTIAL	□ ALLEGED
1 - O. CONTAMINATION OF SEWERS, STORM DRAINS, WI 4 NARRATIVE DESCRIPTION	NTPs 02 () OBSERVED (DATE:) [] POTENTIAL	C ALLEGED
1 _ P. ILLEGAL/UNAUTHORIZED DUMPING 4 NARRATIVE DESCRIPTION	02 COSSERVED (DATE:) POTENTIAL	☐ ALLEGED
DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR	ALLEGED HAZARDS		
TOTAL POPULATION POTENTIALLY AFFECTED:			
. COMMENTS			

ŞEPA		SITE INS	PECT	S WASTE SITE TION PTIVE INFORMAT		I. IDENTIFICATION 01 STATE 02 SITE NUMBER N.C. D.C.C.7776
II. PERMIT INFORMATION	- <u></u>					
01 TYPE OF PERMIT ISSUED (Check at that apply)	02 PERMIT NUMBER	03 DATE	SOUED	04 EXPIRATION DATE	05 COMMENTS	
		1		ļ	Malai a	in 1972 or 197
XA. NPDES	· 			<u> </u>	Violatien	(M) (x or)
☐ B. UIC						
▼C. AIR				<u> </u>		
CD. RCRA						1027
ZE. ACRA INTERIM STATUS		+		 	Withdraw	n in 1933
XF. SPCC PLAN						
□ G. STATE/Specify)	 					
☐ H. LOCAL (Specify)						
☐ I. OTHER (Specify)	 	_}		<u> </u>		
□ J. NONE	J			<u> </u>	L	
III. SITE DESCRIPTION						—
01 STORAGE/DISPOSAL (Check at their apply) 0	2 AMOUNT 03 UNIT	OF MEASURE	04 TR	MEATMENT (Check of that a	Mary)	06 OTHER
A. SURFACE IMPOUNDMENT				INCENERATION		XA. BUILDINGS ON
B. PILES	4.000 lbs/yr.			UNDERGROUND INJ		A. BUILDINGS UN
XC. DRUMS, ABOVE GROUND 1/2 2	9,000 1037 4 15		ľ	CHEMICAL/PHYSICA	L	
E. TANK, BELOW GROUND				BIOLOGICAL WASTE OIL PROCESI		OR AREA OF SITE
	nknewn			SOLVENT RECOVER		
S G. LANDFARM ?	nknewn		_	OTHER RECYCLING		
☐ H. OPEN DUMP			!	OTHER		
I. OTHER				(Spa		
7 COMMENTS	 					
Consite wastewater	treatment p	plant.	for	solvents		
V. CONTAINMENT 1 CONTAINMENT OF WASTES (Cheat are)						
	(1.8 MODERATE	MC a	IADEOL	IATE BOOR	□ O MSECU	RE UNROUND DANGEROU
☐ A. ADEQUATE, SECURE	☐ 8. MODERATE	•			□ D. INSECU	ne. unsound, canger application

V. ACCESSIBILITY

OI WASTE EASLY ACCESSIBLE: 1 YES XNO.
02 COMMENTS
Facility is surrounded by a fence, with gates and security personnel.

EPA and State of North Carolina files
NUS Corp. - Logbook F4-791 and photographs from offsite recennaissance.
and target survey, 4/19/88.

⊕EPA			NTIAL HAZAR SITE INSPECT DEMOGRAPHK	ION REPORT		I. IDENTIFICATION O1 STATE O2 SITE N NC DCCC	
H. DRINKING WATE	R SUPPLY						
01 TYPE OF DRINKING SU (Cheeft or applicable)	JPPLY		02 STATUS			03 DISTANCE TO	апт
	SURFACE	WELL	ENDANGERE		MONITORED	19	
COMMUNITY NON-COMMUNITY	A. 🗆 C. 🗔	B. □ D. \$2(A. 🗆 D. 🗆	8. □ €. □	C. () F. ()	A	(mi) (mi)
III. GROUNDWATER							
O1 GROUNDWATER USE		ene)					
A. ONLY SOURCE!	FOR DRINKING	B. DRINKING (Other sources evaluate COMMERCIAL, IND (No other water source)	USTRIAL, IRRIGATION	(Limited off	ICIAL, INDUSTRIAL, IRRIGA or sources eveluping	TION 🗆 D. NOT USED,	UNUSEABLE
02 POPULATION SERVED	BY GROUND WA	132		03 DISTANCE TO N	EAREST DRINKING WATER	WELL J. CY	(mi)
04 DEPTH TO GROUNDWA	TER	05 DIRECTION OF GROU	NOWATER FLOW	OS DEPTH TO AQUIF OF CONCERN	OK ACUMERA		
approx. 20	(m)			approx. 14	100 ave 10-25	gem - YES	MNO €
09 DESCRIPTION OF WELL	.S /helvelny useage.	death, and lecation relative to be	publish and buildings	.t. • .11 a	do drink	ing water s	.ource
C'ne non-con	numunity	well located	l at a chul	-on, alter	-nate drink		
Small commi	unity lo	ared 3.5-3.	miles from	n-facility	is assumed the area are gone	fouse priva	He wells;
10 RECHARGE AREA	26011	avariable. w	elia In Gr	11 DISCHARGE ARE	A CIE HORE	Raily at leas	<u> </u>
☐ YES COMMENT	3			☐ YES COM	MENTS		
V. SURFACE WATER						·· ·· <u> </u>	
A. RESERVOIR, REDRINKING WAT	ECREATION	B. IRRIGATION, IMPORTANT	ECONOMICALLY RESOURCES	C. COMM	ERCIAL, INDUSTRIAL	∭ b. NOT CURRI	ENTLY USED
02 AFFECTED/POTENTIAL	LY AFFECTED BO	DIES OF WATER					
NAME:	0.4	•			AFFECTED		O SITE
North Pu	aftale (reek			X	onsite	(mi)
Rulfalo	Creek					approx.	11 (mi) (mi)
V. DEMOGRAPHIC AI	NO PROPERTY	MFORMATION			. <u></u>	<u></u>	
01 TOTAL POPULATION W	TT-40%		73.71		02 DISTANCE TO NEAR	EST POPULATION	
ONE (1) MILE OF SITE	E TW	O (2) MILES OF SITE		MILES OF SITE	1.	< 0.1	
A. NO OF PERSONS		NO. OF PERSONS	C	OF PERSONS		(mi)	
03 NUMBER OF BUILDINGS	WITHIN TWO (2)	MILES OF SITE		04 DISTANCE TO NE	AREST OFF-SITE BUILDING		
]		< 0.1	(mi)	
	· · · · · · · · · · · · · · · · · · ·						

The area surrounding the facility is primarily residential.

•	
	$\vdash \vdash \Delta$

POTENTIAL HAZARDOUS WASTE SITE

	IFICATION	
01 STATE	02 SITE NUMBER	•
NC	DCOC 776	

SEPA	PART 5 - WA	SITE INSPECT TER, DEMOGRAPHH		NMENTAL DATA	NC DOGG	ER Today
VI. ENVIRONMENTAL INFORM	IATION					
01 PERMEABILITY OF UNSATURATED						
⊒ A. 10 ⁻⁶ ~ 10)=6 cm/sec (X B. 10	-4 - 10-9 cm/sec 🗆 (C. 10-4 – 10-3 cm/	ec 🗆 D. GREATE	R THAN 10-3 cm/sec	
02 PERMEABILITY OF BEDROCK (Check	t one)					
☐ A. IMPER	MEABLE B. RE	LATIVELY IMPERMEABLE -4 - 10 -6 crivace)	C. RELATIVELY	Y PERMEABLE C	D. VERY PERMEABLE (Greater then 10 = 2 crivsec)	
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAN	MNATED SOIL ZONE	05 SOIL pH			
(m)		(m)	Ì			
06 NET PRECIPITATION	07 ONE YEAR 24 HOU	RANFALL	STE SLOPE	DESCRION OF SITE	SLOPE TERRAIN AVERA	OE 81 ODE
3.5 (in)	<u>2.</u>	<u>7(in)</u>	SITE SLOPE	N/NW	7.5	
09 FLOOD POTENTIAL	10					
SITE IS INYEAR FL	OODPLAIN	☐ SITE IS ON BARRIEI	RISLAND, COASTAL	, HIGH HAZARD ARE/	A, PIVERINE FLOODWAY	
11 DISTANCE TO WETLANDS 15 acre mine	mum)		2 DISTANCE TO CRITIC	CAL HABITAT (of endanger	red species)	
ESTUARINE	ОТН	ER			(mi)	
A(mi)	<u>. >3</u>	(mi)	ENDANGERE	D SPECIES:		
13 LAND USE IN VICINITY						
DISTANCE TO: COMMERCIAL/INDUSTI		ENTIAL AREAS; NATION/ FORESTS, OR WILDLIFE		AGR PRIME AG LA	MCULTURAL LANDS MD AG LANK)
A(m))	. <0.	_ (mi)	c	(rid) D	(mi)
14 DESCRIPTION OF SITE IN RELATION	TO SUBBOUNDING TOPO	CRAPHY				
14 DESCRIPTION OF SITE WINESPITAN						
VII. SOURCES OF INFORMATIO	(Cito appealle references, e	.g., state flox, surrain analysis. re)) () () () () () () () () ()	.0 4.0	1.10	
EYH and State	of North	· l'arelina 1	-iles; Gui	Hord Co.	water Dept.	ال بين ا
Topographic Qua	d. Map (7.5	'series) for (Greensber	0, N.C. /195	51, photorevised	(1468)
EPA and State Topographic Qua NC DHR, Water PWS Gulland	- Supply Br	anch - List	of active	2 communit	ty and non-co	mmunit.
PWS 6 .15 1	Colinic				•	,

\$EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT DI STATE I		
VLIP	•	PART 6 - SAMPLE AND FIELD INFORMATION	NC Decensor 414
I. SAMPLES TAK	EN		
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTMATED DATE RESULTS AVALAS
GROUNDWATER			
SURFACE WATE	H Unknown	NO DNRCD	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	?		
VEGETATION			
OTHER			
IL FIELD MEASUR	NEMENTS TAKEN		
V. PHOTOGRAPH	IS AND MAPS		
OI TYPE IX GROUP	NO - AERIAL	02 IN CUSTOSY OF NUS Corporation	
MAPS	04 LOCATION OF MAPS		
□ YES			

	i	POT	ENTIAL HA	ZARDOUS WASTE SITE	I. IDEN		
⊕EPA				SPECTION REPORT OWNER INFORMATION O1 STATE 02 SITE NUMBER NC DCCCTT(.912)			
L CURRENT OWNER(S)				PARENT COMPANY (# application)			
	k Plant	02 D	+8 NUMBER	OS NAME		00	D+B NUMBER
Cone Mills Curtorates spo bus mode one	100	1		Cone Mills Corps	ration	-	
DE STREET ADDRESS (P.O. Buz. RFD). Mc.)	· · · / / ·		04 SIC CODE	10 STREET ADDRESS (P.O. Box, NFO P. onc.)	1 3/1:0/1		11 SIC CODE
242C Fairview Str	-eet	i		j			i
DA CITY	DE STATE			12 CITY	ATE CI	TE 14	ZIP CODE
Greensboro	<u> INC</u>		17405				
OI NAME		02 D	+8 NUMBER	OS NAME		09	D+6 NUMBER
	·	<u>L</u> ,				丄	
IS STREET ADDRESS (P.O. Box. AFO F. etc.)		- 1	04 SIC CODE	10 STREET ADDRESS (P.O. Box. AFD P. etc.)			11 SIC CODE
DS CITY	100.00	1					1
35 CT Y	06 STATE	# 07 Z	PCODE	12 CITY	13 STA	ITE 14	ZIP CODE
		 				+-	
01 NAME		02 0	+8 NUMBER	OS NAME		00	0+8 NUMBER
33 STREET ADDRESS (P. O. Bas, RFD F. etc.)		1	04 SIC CODE	10 STREET ACCRESS (P.O. Soc. NFD 4, etc.)		ㅗ	TITSIC CODE
S STREET ROOMESS (P U. Ball, NO P. Ball,		1	0- 00 000E	10 STREET ADDRESS (F.O. ME. A-DV, ME.)			1130 0002
DE CITY	OG STATE	107 2	P COOR	12 017	113.874	175 14	ZIP CODE
,							
1 NAME		020	+ B NUMBER	QE NAME		-loe	D+6 NUMBER
03 STREET ADDRESS (P.O. Sox, AFD F. onc.)		1	04 SIC CODE	10 STREET ADDRESS (P.O. Box, NFD #, otc.)			11 SIC COD€
		1		j			
DS CITY	OS STATE	07 Z	PCODE	12 017	13.8TA	TE 14	ZIP CODE
	- 1	ļ			l		
III. PREVIOUS OWNER(S) (List most recent				IV. REALTY OWNER(S) (F approach: No			
OI NAME		03 D	+ B NUMBER	O1 NAME		02	D+8 NUMBER
		1				1	
03 STREET ADDRESS (P. O. Box, AFD F. cox.)			04 SIC CODE	OS STREET ADDRESSTP O. Box. AFD F. cos.)			04 SIC CODE
05 CITY	COSTATE	07 Z	PCODE	06 CITY	00 STA	TE 07	ZIP CODE
O NAME		03 D	FO NUMBER	O1 NAME		02	D+8 NUMBER
		L.,					T
03 STREET ADDRESS (P.O. Sen. APD 4, etc.)		ļ'	04 SIC CODE	03 STREET ADDRESS (P.O. Son, APD P. etc.)			04 SIC CODE
DE CITY	OS STATE	102.7	-	os carv	100.874	11 07	ZIP CODE
		[-				٦٠.	
OI NAME		02 D	+ & NUMBER	O1 NAME		02	D+8 NUMBER
						1	
33 STREET ADDRESS (P O Box. MPD P, etc.)			04 SIC CODE	OS STREET ADDRESS (P.O. Sec. APD P. etc.)			04 SIC CODE
		- 1					}
DECITY	OGSTATE	07	OP CODE	OS CITY	OS STA	TE 07	ZIP CODE
				1		ı	
V. SOURCES OF INFORMATION (CIV.)		44. #					
		1/	<u> </u>	0.4			
EPA and State	et Nor	4h	Carolin	a tiles			

EPA FORM 2070-13 (7-81)

		ρ	OT	ENTIAL HAZAI	RDOUS WASTE SITE	I. IDENTI	FIC/	TION
≎EPA	SEPA SITE INSPI			SITE INSPEC	ECTION REPORT ATOR INFORMATION O1 STATE 02 SITE NUMBER NC DCLC 774			
II. CURRENT OPERAT	OR Provide & different fro	m oaner)			OPERATOR'S PARENT COMPANY	odcable)		
01 NAME			02	D+8 NUMBER	10 NAME		110	+6 NUMBER
03 STREET ADDRESS (P O. 8	los, RFO F, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Bull, NPD P., etc.)		1	13 SIC CODE
05 CITY		OS STATE	07	ZIP CODE	14 CITY	15 STATE	10 2	ZIP CODE
08 YEARS OF OPERATION DO NAME OF OWNER			٠.			_ .	l	
III. PREVIOUS OPERAT	OR(S) (Las most recent f	hat: provide or	-	Marent from owner)	PREVIOUS OPERATORS' PARENT COI	PANIES (7 appile	cable)
01 NAME	•			D+6 NUMBER	10 NAME		111	HERMUMBER
03 STREET ADDRESS (P.O. a	ost, AFD F. eeg.)		<u> </u>	04 SIC CODE	12 STREET ADDRESS (P.O. deat, RFD #, etc.)		.	13 SIC CODE
OS CITY		OS STATE	07	ZP COOE	14 CITY	15 STATE	10	ZIP CODE
OS YEARS OF OPERATION	00 NAME OF OWNER	CUPING TH	6 PI	EPIOO	 			
01 NAME			02	D+8 NUMBER	10 NAME			NEWWOOD A
03 STREET ADDRESS (P.O. Out, APD F. col.)			04 SIC CODE	12 STREET ADDRESS (P. O. Box, APD F, etc.)			13 SIC CODE	
06 CITY		OB STATE	07	2P CODE	14 CITY 15 STATE 1		16	OP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER	DUFUNG TH	10 PI	EPICO			<u> </u>	
O1 NAME	L		02	D+6 NUMBER	10 NAME		171	D+ B NUMBER
03 STREET ADDRESS (P.O. So	s. NFO P. eds.)		•	04 SIC CODE	12 STREET ACCRESS (P. O. Ban, APD P. ess.)			13 SIC CODE
06 CTY		00 STATE	07	2P COOR	14 QTY	15 STATE	10	OP CODE
08 YEARS OF OPERATION	00 NAME OF OWNER	CUPING TH	9 71	PROD		<u></u>	<u> </u>	
IV. SOURCES OF INFO	RIMATION (Cas appears	y references, r	e.g.,	elato Mos. samplo analysis, r	special control of the control of th		_	

0.774	P	POTENTIAL HA	ZARDOUS WASTE SITE	I. IDENTIFICATION		
≎EPA			PECTION REPORT	OI STATE OF	SITE NUMBER	
	PART	9 - GENERATOR	TRANSPORTER INFORMATION		7,000	
II. ON-SITE GENERATOR						
O1 NAME		02 D+8 NUMBER				
03 STREET ADDRESS (P.O. Bos. RFD P. etc.)		04 SIC CODE				
	[20.07476]					
05 CITY	OS STATE	07 ZIP CODE				
III. OFF-SITE GENERATOR(S)						
01 NAME		02 0+8 NUMBER	01 NAME		02 D+8 NUMBER	
3 STREET ADDRESS (F O Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD P. etc.)		04 SIC CODE	
D6 CITY	OR STATE	07 ZIP CODE	06 CITY	IOS STATE	07 ZIP CODE	
19 G1 1	S S I A I S	0.000	00 0011		0.22.000	
O1 NAME		02 D+6 NUMBER	01 NAME		02 D+8 NUMBER	
3 STREET ADDRESS (P.O. Box. NFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, APD P. esc.)		94 SIC CODE	
					-	
DE CITY	06 STATE	07 ZIP CODE	06 CITY	OS STATE	07 ZIP CODE	
IV. TRANSPORTER(S)						
1 NAME		02 D+8 NUMBER	O1 NAME		02 D+B NUMBER	
3 STREET ADDRESS (P.O. Box, RFD F, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Son, APO P. stc.)		04 SIC CODE	
08 CITY	00 STATE	07 ZIP CODE	05 CITY	00 STATE	07 ZIP CODE	
OT NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER	
D3 STREET ADDRESS (P. O. Box, RPD P. con.)		04 SIC CODE	03 STREET ADDRESS (P. C. Son, RFD F. son.)		04 SIC CODE	
		1				
e atv	OS STATE	07 ZP CODE	06 CITY	06 STATE	07 ZIP CODE	
V. SOURCES OF INFORMATION (CIN)						
			A. Appendi			

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PART RESPONSE ACTIVITIES

	TEICATION
01 STATE	02 SITE NUMBER
1 6/7	カバケッサニュ

	PART 10 - PAST RESPONSE ACTIVITIES		NC DUC
IL PAST RESPONSE ACTIVITIES			
01 A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DE CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 G F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY	_
01 - H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 [] J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 (I K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 CL ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DM. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY	
01 O. EMERGENCY DIKING/SURFACE WATER DO	VERSION 02 DATE	03 AGENCY	
01 P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
01 [] Q. SUBSURFACE CUTOFF WALL. 04 DESCRIPTION	02 DATE	03 AGENCY	

ŞEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		L IDENTIFICATION O1 STATE O2 STE NUMBER L) C C C C C C C C C C C C C C C C C C C
II PAST RESPONSE ACTIVITIES (Combust)			
01 G R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 © S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 (W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 - X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 T. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 - Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 □ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 © 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 G 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGIENCY.	
! 			
III. SOURCES OF INFORMATION (CRO specific rate	rences. e.g., state files. sariale enalysis, reporter		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT **PART 11 - ENFORCEMENT INFORMATION**

OI STATE OZ SITE NUMBER

	-	~	MENT	IMEO	 TION
L			MENT		

01 PAST REGULATORY/ENFORCEMENT ACTION (XYES | | NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NPDES permit violation in 1972 or 1973. Company paid TETT, CCC Time. Regulatory tenforcement action by the State of North Carelina.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, cample analysis, re

EPA and State of North Carolina files

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 Site Location and Inspection Information
- Part 2 Waste Information
- Part 3 Description of Hazardous Conditions and Incidents
- Part 4 Permit and Descriptive Information
- Part 5 Water, Demographic, and Environmental Data
- Part 6 Sample and Field Information
- Part 7 Owner Information
- Part 8 Operator Information
- Part 9 Generator/Transporter Information
- Part 10- Past Response Activities
- Part 11 Enforcement Information
- Part 1 Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.
- Part 2 Waste Information and Part 3 Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 — Water, Demographic, and Environmental Data.

General Instructions

- 1. Complete the Site Inspection Report form as completely as possible.
- 2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
- 3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, II-09 Coordinates, and II-10, Type of Ownership.
- 4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *I-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *I-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
- #II-01 Site Name: Enter the legal, common, or descriptive name of the site.
- #11-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct 1-295 & US 99; Post Rd, 5 mi W of Rt. 5.
- #II-03 Sits City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
- #II-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in-item I-01.
- #II-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
- #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
- #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
- #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.

III. Inspection Information

- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
- *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
- *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
- III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
- III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
- III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA -- Region 4, VA State Health Dept., Environmental Research Co.
- III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
- III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
- III-10 Title: Enter the titles of other parties participating in the inspection.
- III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
- III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties perticipating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as con-
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- •1. Identification: Refer to Part 1-1.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pethway.

- *II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
- *II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
- *II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site, If waste at the site poses no hazard, check Not Applicable.
- III. Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
 - *III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
 - *111-02 Unit of Messure: Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
 - III-03 Comments: Comments may be used to further explain, or provide additional information, about perticular waste categories.
- IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 CAS Number: Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).

- IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.
- IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

V. Feedstocks

- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 Description of Hazardous Conditions and Incidents

 *I. Identification: Refer to Part 1—I.
- II. Hazardous Conditions and Incidents:
 - 11-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
 - II-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
 - II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
 - II-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
 - 11-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.

V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

*i. identification: Refer to Part 1-1.

II. Permit Information

- II-01 Type of Permit Issued: Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02 Permit Number: Enter the permit number for each issued permit.
- 11-03 Date Issued: Enter the date each permit was issued.
- II-04 Expiration Date: Enter the date each permit expires or expired.
- II-05 Comments: Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01 Storage/Disposal: Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02 Amount: Enter the gross amount of waste associated with each type of storage/disposal facility.

 Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03 Unit of Measure: Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04 Treatment: If waste is treated at the site, check the appropriated box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- 111-05 Other: If there are buildings on site, check this box.
- *III-06 Area of Site: Enter total area of site in acres.
- 111-07 Comments: Enter any other pertinent information.
- IV. Containment: Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.
 - *IV-01 Containment of Wastes: Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
 - IV-02 Description of Drums, Diking, Liners, Barriers: Provide a narrative description of the condition of containment measures at the site, e.g., waste ade-

- quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.
- V. Accessibility: Accessibility is an indicator of the potential for direct contact with hazardous substances.
- *V-01 Waste Easily Accessible: If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.
- V-02 Comments: Additional information about accessibility to hazardous waste may be provided.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

*I. Identification: Refer to Part 1-1.

II. Drinking Water Supply

- II-01 Type of Drinking Water Supply: Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- 11-02 Status: Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03 Distance to Site: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

- 111-01 Groundwater Use in Vicinity: Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.
 - 111-02 Population Served by Groundwater: Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from serial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

- III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.
- III-04 Depth to Groundwater: Enter the depth in feet to groundwater.
- III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.
- III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.
- III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.
- III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.
- III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including useage, depth, and location relative to population and buildings.
- III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.
- III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

- IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.
- IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

- V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.
- V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

- tance from the site boundary to the nearest population (one person minimum).
- V-03 Number of Buildings Within Two (2) Miles of Site:
 Enter the number of buildings within two miles from the boundaries of the site.
- V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.
- V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

- VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.
- VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.
- VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.
- VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.
- VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.
- VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.
- VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.
- VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.
- VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.
- VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.
- VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.
- VI-12 Distance to Critical Habitst: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

- of an endangered species. Enter the name(s) of the endangered species.
- VI-13 Land Use in Vicinity: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.
- VI-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.
- VII. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

*I. Identification: Refer to Part 1-1.

II. Samples Taken

- II-01 Number of Samples Taken: Next to each sample type enter the number of samples of that type taken.
- II-02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.
- II-03 Estimated Date Results Available: Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

- 111-01 Type: Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagant type gas detection, of each field measurement taken.
- III-02 Comments: Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

- IV-01 Type: If photographs of the site have been taken, check the appropriate box(es) to indicate the type.
- IV-02 In Custody Of: Enter the name of the organization or person who has custody of the photographs.
- IV-03 Maps: Check the appropriate box to indicate that maps of the site area have been prepared or obtained.
- IV-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.
- V. Other Field Data Collected: Provide a narrative description of any other field data collected.

VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

- *1. Identification: Refer to Part 1-1.
- II. Current Owner(s) Parent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.
 - II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.
 - II-02 D&B Number: Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.
 - 11-03 Street Address: Enter the business, mailing, or residential street address of the owner.
 - II-04 SIC Code: If applicable, enter the owner's primary SIC Code.
 - 11-05 City: Enter the city of the owner's business, mailing, or residential address.
 - 11-05 State: Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.
 - 11-07 Zip Code: Enter the five digit zip code for the owner's business, mailing, or residential address.
 - 11-08 Name: If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.
 - II-09 D&B Number: Enter the parent company's Dun and Bradstreet number.
 - 11-10 Street Address: Enter the business or mailing street address of the parent company.
 - II-11 SIC Code: If applicable, enter the parent company's primary SIC code.
 - II-12 City: Enter the city of the parent company's business or mailing address.
 - II-13 State: Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.
 - 11-14 Zip Code: Enter the five digit zip code for the perent company's business or mailing address.
- 111. Previous Owner(s): List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.
 - 111-01 Name: Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

- III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.
- III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- 111-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- 111-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- 111-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. Realty Owner(s): Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
 - IV-01 Name: Enter the legal name of the resity owner. The resity owner may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
 - IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
 - IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.
 - IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Operator Information

- *1. Identification: Refer to Part 1-1.
- Current Operator—Operator's Parent Company: Information on operators is applicable when the operator is not the owner.
 - 11-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
 - II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.

- 11-03 Street Address: Enter the operator's business, mailing, or residential street address.
- II-04 SIC Code: If applicable, enter the operator's primary SIC Code.
- 11-05 City: Enter the city of the operator's business, mailing, or residential address.
- 11-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- 11-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.
- 11-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.
- II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.
- 11-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.
- 11-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. Previous Operator(s)—Previous Operators' Parent Companies
 - 111-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.
 - 111-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.
 - 111-03 Street Address: Enter the previous operator's business, mailing, or residential street address.
 - 111-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
 - 111-05 City: Enter the city of the previous operator's business, mailing, or residential address.
 - III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.
 - 111-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
 - III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.
 - III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

- III-10 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- 111-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.
- IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

- *I. Identification: Refer to Part 1-1.
- On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.
 - 11-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.
 - 11-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.
 - 11-03 Street Address: Enter the business or mailing street address of the on-site generator.
 - II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.
 - II-05 City: Enter the city of the on-site generator's business or mailing address.
 - 11-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.
 - 11-07 Zip Code: Enter the five digit zip code for the onsite generator's business or mailing address.
- III. Off-Site Generator(s): Those compenies or agencies off-site who have generated waste which has been disposed at the site are listed here.
 - III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.
 - III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

- III-03 Street Address: Enter the business or mailing street address of the off-site generator.
- III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.
- III-06 City: Enter the city of the off-site generator's business or mailing address.
- III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.
- III-07 Zip Code: Enter the five digit zip code for the offsite generator's business or mailing address.
- IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.
 - IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.
 - IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.
 - IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.
 - IV-05 City: Enter the city of the transporter's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 10 Past Response Activities
- •1. Identification: Refer to Part 1—1.
- II. Past Response Activities
 - II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.
 - II-02 Date: Enter the start date (or approximate date) of the activity.
 - II-03 Agency: Enter the name of the Agency responsible for the activity.
 - 11-04 Description: Provide a brief nerrative description of the activity.
- III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

SITE INSPECTION REPORT

Part 11 Enforcement Information

*I. Identification: Refer to Part 1—I.

II. Enforcement Information

II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7864-41-7	Ammonie	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28, 1310-68-3	Potessium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17, 74 -85- 1	Ethylene	30, 10588-01-9	Sodium Dichromate
5, 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31, 1310-73-2	Sodium Hydroxide
6. 21109-95-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7, 7726-95-6	Bromine	20. 1335-25-7	Leed Oxide	33. 7772- 99-8	Stannous Chlorida
8. 10 6-99- 0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 106-88-3	Toluene
0. 7782-50-5	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
1, 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7 646-85 -7	Zinc Chloride
2. 7440-47-3	Chromium	25. 7897-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
3. 7440-48-4	Cobelt	26, 7723-14-0	Phosphorus	1	

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1, 75-07-0	Acetaldehyde	47. 1303-33- 0	Areenic Trisulfide	92, 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoersenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94, 7447-39-4	Cupric Chlorida
4. 75-86-5	Acetone Cyanohydrin	50. 65 -8 5-0	Benzoic Acid	96, 3251-23-8	Cupric Nitrate
5, 506-96-7	Acetyl Bromide	51, 100-47-0	Benzonitrile	96, 5893-66-3	Cupric Oxalete
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyi Chloride	97, 7758-98-7	Cupric Sulfate
7, 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98, 10390-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9, 124-04-9	Adipic Acid	55. 7787-47-6	Beryllium Chloride	100, 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101.110-82-7	Cyclohexane
11, 10043-01-3	Aluminum Sulfate	57. 13 59 7 -99-4	Beryllium Nitrate	102.94-75-7	2.4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123 -86-4	Butyl Acetate	103. 94-11-1	2.4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104, 50-29-3	DDT
14, 7664-41-7	Ammonia	60. 10 9 -73-9	Butylamine	105, 333-41-5	Diszinon
15. 631-61-8	Ammonium Acetate	61. 107 -92-6	Sutyric Acid	106, 1918-00-9	Dicembe
16. 1863-63-4	Ammonium Benzoete	62. 543 -00-8	Cadimium Acetate	107, 1194-65-6	Dichlobenil
17. 10 66-33-7	Ammonium Bicarbonate	63. 77 89-42-6	Cedmium Bromide	108, 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromete	64. 10108-64-2	Cadmium Chlorida	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341- 49- 7	Ammonium Bifluoride	65. 777 8-44- 1	Calcium Arsenets	110. 266-38-19-7	Dichloropropene (all isomers)
20. 101 92-30-0	Ammonium Bisulfite	66 . 52740-16-6	Calcium Arsenite	111. 26962-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbameta	67. 7 5 -20-7	Calcium Carbide	112.8003-19-8	Dichloropropene-
22. 121 25-02-9	Ammonium Chloride	68 . 137 66 -19-0	Calcium Chromate		Dichloropropene Mixture
23. 7 788-98-9	Ammonium Chromate	69. 582- 01- 8	Calcium Cyanide	113, 75 -99- 0	2-2-Dichloropropionic Acid
24. 3012-65-6	Ammonium Citrate, Dibasis	70. 2 6264 -06-2	Calcium Dodacythanzena	114.62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate		Sulfonete	115, 60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-54-3	Calcium Hypochlorite	116, 10 9-89- 7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-0 6- 2	Capten	117. 124-40-3	Dimethylemine
28. 6009-70-7	Ammonium Oxelete	73. 63-25-2	Carbaryl	118. 251 54-54-5	Dinitrobenzene (all isomers)
29. 16919-19-0	Ammonium Silicoffuoride	74. 15 63-66-2	Carbofuran	119.51-2 8-6	Dinitrophenoi
30. 7773-08-0	Ammonium Sulfamete	76. 76-16-0	Carbon Disulfide	120, 25321-14-6	Dinitrotoluene (all isomers)
31. 12136-76-1	Ammonium Sulfide	76. 56-23-6	Carbon Tetrachloride	121.85-00-7	Diquet
32. 10196-04-0 33. 14307-43-8	Ammonium Sulfite	77. 57-74 -0	Chlordene	122, 298-04-4	Disulfoton
34. 1762-96-4	Ammonium Tertrate	78. 7782 -5 0-5	Chiorine	123, 330-54-1	Diuron
36. 7783-18-8	Ammonium Thiocyanete	79. 108-90-7	Chiorobenzene	124. 2717 6-8 7-0	Dodecylbenzenesulfonic Acid
36, 628-63.7	Ammonium Thiosulfate	8 0. 67-86-3	Chloroform	125. 115-29-7	Endoculfen (ell isomers)
37. 62-53-3	Amyl Acetate	81. 77 90-94- 5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
38. 7647-18-9	Aniline	82. 2921-88-2	Chlorpyrifos	127. 10 6.69-6	Epichlorohydrin
39. 7789-61-9	Antimony Pentachloride	83. 1086-30-4	Chromic Acetate	128. 563-12-2	Ethion
40. 10025-91-9	Antimorry Tribromide	84. 7738-94-6	Chromic Acid	129. 100-41-4	Ethyl Benzene
41. 7783-56-4	Antimony Trichloride	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
42. 1309-64-4	Antimony Trifluoride	86 . 10049-06-5	Chromous Chloride	131, 10 6-93-4	Ethylene Dibromide
43. 1303-32-8	Antimony Trioxide	87. 544-18-3	Cobeltous Formets	132. 107 -08- 2	Ethylene Dichloride
44. 1303-28-2	Arsenic Disulfide	88. 14017-41-5	Cobeltous Sulfamete	133. 60-00-4	EDTA
45. 7784-34-1	Arsenic Pentoxide	89. 56-72-4	Coumephos	134. 11 85-6 7-6	Ferric Ammonium Citrate
46. 1327-53-3	Americ Trichloride	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
	Amenic Trioxide	91.4170-30-3	Crotoneldehyde	136.7705-08-0	Ferric Chloride



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

DATE: 8/1/88

SUBJECT: Con- MIls Corp. White Oak TH. NC

FROM: Robert Morris Robert Mover

10: File

On 8/11/88. I received a telephone call from Harold Bynum an atterney for Conc Mills Corp.

Mr Bynum telephoned because he had received the access letter from EPA requesting site access by FIT for the White Oak PH. for 8/22-25/88. He was concerned that EPA wented, to do an SSI on the site because of recent publicity

by local persons concerning the plants water discharges (which Mr. Bynnin says are under NPDES permits). I told him this was not the ease. EPA is doing an SSI on the site to clarify and for document information contained in the PA on the site. I agreed to send him a copy of the PA report.

cc: Mary Curnane, OTC

SEPA

POTENTIAL HAZARDOUS WASTE SITE **PRELIMINARY ASSESSMENT**

I. IDENTIFICATION			
	02 SITE NUMBER		
NC	D000776914		

PART	1 - SITE INFORMAT	TION A	ND ASSESSM	ENT LNC_L	D000776914
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	T, ROUTE NO., OR	SPECIFIC LOCATION IDENTIFIER	
Cone Mill Corp./White Oak Plant) Fairviet	w Street	To7 COUNTY 108 CONG
Greensboro		NC	27405	Guilford	CODE DIST
	NGITUDE				
<u>36 06 15. 079 </u>	<u>46 15 . </u>				
In Greensboro on I85 take US 29 North. Exit right on 16th Street. Turn left on 16th Street. Cone Mills White Oak Plant is located on left at intersection of 16th and Fairview Streets.					
III. RESPONSIBLE PARTIES 01 OWNER (# known)		02 STREE	T (Business, mailing, n	esidentiah	
Cone Mills Corp.		OZ GINEE	, i (Doaries, making, n	and an interf	
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
07 OPERATOR (# known and different from owner)		08 STREE	Y (Business, melling, ri	seldential)	
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE B. FEDERAL:	(Agency name)		□ C. STAT	E D.COUNTY DE.MI	JNICIPAL
☐ F. OTHER:	c#y)		_ G. UNKN	IOWN	
A. RCRA 3001 DATE RECEIVED: 11 / 17/ 80 MONTH DAY YEAR	D B. UNCONTROLLI	ED WAST	E SITE (CERCLA 10:	3 c) DATE RECEIVED:	DAY YEAR C. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD				<u>.</u>	
$ $ Myes DATE 5 11,84 \square A	theck all that apply) i. EPA	CIAL [3 F. OTHER:	·	CONTRACTOR
	ITRACTOR NAME(S): _	RCR	A Complia	nce Inspection	
02 SITE STATUS (Check one)	03 YEARS OF OPERA	TION			
A. ACTIVE B. INACTIVE C. UNKNOWN 1980 —— UNKNOWN BEGINNING YEAR ENDING YEAR				N	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED					
Various solvent and heavy metals are suspected on-site with initial emphasis on the on-site creek and burial areas. N.C. Dept. NRCD indicates presence of contamination					
onsite(in the plant and creek	areas) and or				
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION					
Possibly suface soil and groundwater contamination. No known or suspected private wells in vicinity since this site is within Greensboro City limits.					
V. PRIORITY ASSESSMENT					
O1 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 · Waste information and Part 3 · Description of Hazardous Conditions and Incidents) A. HIGH B. MEDIUM C. LOW D. NONE (Inspection required promptly) (Inspection required promptly) C. LOW (Inspection required promptly)					
VI. INFORMATION AVAILABLE FROM					
			03 TELEPHONE NUMBER		
T.A. Alspaugh	Cone Mills	Cone Mills (919) 379-6579			
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	Col 1 Hog 1 .8 .85			08 DATE 1 /8 /85
Lee Crosty	NC DHS		te Mgt. B	r. (919) 733-2178	MONTH DAY YEAR

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER | NC | D000776914

V L.	^		PART 2 - WASTI	INFORMATION		1 DOOC	7770914
II. WASTEST	TATES, QUANTITIES, AN	D CHARACTERI	STICS	•		···	
	TATES (Check all that apply)	02 WASTE QUANTIT	TY AT SITE	03 WASTE CHARACT	ERISTICS (Check all that ac	oply)	
			waste quantities independent)	DXA. TOXIC DXE. SOLUI			
★ 5. POWDE ★ C. SI,UDGE	R, FINES 😤 F. LIQUID	TONS		🗅 C. RADIOA	ICTIVE K.G. FLAMI	MABLE II K. REACTIN	Æ Í
		CUBIC YARDS _	UNKNOWN	L) D. PERSIS	TENT KH. IGNITA	ABLE D. L. INCOMP D. M. NOT API	
LI D. OTHER	(Specify)	NO. OF DRUMS					
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES						
осс	OTHER ORGANIC CH	IEMICALS					
ЮС	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See A)	opendix for most frequent	ly cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Diethyl Phthal	ate	64662	Discharge	Effluent	3	IIG/I.
	Di-N-Butyl Pht	halate	999	11	11	6	UG/L
	Bis (2-ethylhe	xvl) Phtha	late 117817	f t	11	24	UG/I
	Total Phenols		_	Discharge	Effluent	6.4	UC/I
	2-Chloro-4,6-B	is(Ethylan	ino)	8			-
	-S-Triazi		999			·	
	Dichloroxylene		999			1	
	Chloroethylben		999				
	Trichloroxylen		999				
	Dye Waste (Met	als?)	-	Land Dispo	osal		
	······			<u> </u>			
			<u> </u>			 	
	—						
					··· · · · · · · · · · · · · · · · · ·		
V EFFRETO	OKE -		<u> </u>	L		L	<u> </u>
	CKS (See Appendix for CAS Number		T	01770000			
CATEGORY	01 FEEDSTOC	KNAME	02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS			<u> </u>	FDS			
FDS				FDS			
FDS				FDS			
FDS			L	FDS		1	
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
\	CRA Part A Noti	-					
2. Di	ischarge Efflue	nt Chemica	ıl Analysis,	6/2/81			
3. L	etters of 7/8/8	1, 7/27/81	, 8/5/81				i
4. R	CRA Inspection	of 9/21/82	2, 10/5/82				

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDEN	DENTIFICATION			
01 STATE	02 SITE NUMBER D000776914			

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Burial and/or land application of d		lvents.	
01 XB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 © OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	ALLEGED
Discharge of various solvents docum	ented. Check for dye waste	s also.	
01 C C CONTAMINATION OF AIR	02 C OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:		E FOIENNAL	
Not suspected at this time.			
01 D. FIRE/EXPLOSIVE CONDITIONS	02 🗆 OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Not suspected at this time.			
01 DE DIRECT CONTACT	02 D OBSERVED (DATE:)	D/POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Effluent discharge and land applica	tion or burial.		
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
In areas of land application.			
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	OTENTIAL	□ ALLEGED
Through contamination of groundwate suspected at this time.	r or surface water supplies	although n	one are
0) H. WORKER EXPOSURE/INJURY	02 D OBSERVED (DATE:)	28 POTENTIAL	☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
In any on-site contaminated areas.			
0) POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Off-site movement of surface or gro	oundwaters		

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

ı	ı,	IDEN	IFICATION
1	01	STATE	02 SITE NUMBER
		NC	D000776914

ALLY	PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	s NC DOO	0776914
II. HAZARDOUS CONDITI	IONS AND INCIDENTS (Continued)			
01 J. DAMAGE TO FLOI 04 NARRATIVE DESCRIPTION		02 🗆 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
. Not suspecte	d at this time.			
01 K. DAMAGE TO FAU 04 NARRATIVE DESCRIPTION		02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
Not suspected	d at this time.			
01 □ L. CONTAMINATION 04 NARRATIVE DESCRIPTION		02 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
Not suspected	d at this time.			
M. UNSTABLE CONT (Spills-runoff:standing li	liquids/leaking drums)	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
Discharge of		04 NARRATIVE DESCRIPTION nt and burial of dye waste:	s.	
025 N. DAMAGE TO OFF 04 NARRATIVE DESCRIPTION		02 🗆 OBSERVED (DATE:)	-EXPOTENTIAL	□ ALLEGED
Off-site mov	ement of surface or gr	roundwaters		
01 0 CONTAMINATION 04 NARRATIVE DESCRIPTION	I OF SEWERS, STORM DRAINS, WWTPS	02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
If hazardous	substances have been	disposed of in sanitary s	ewer.	
01 P. ILLEGAL/UNAUTH 04 NARRATIVE DESCRIPTION	IORIZED DUMPING ON	02 □ OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
In discharge	effluent and/or buria	al of dye wastes.		
05 DESCRIPTION OF ANY	OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
None suspect	ed at this time.		•	
III. TOTAL POPULATION	POTENTIALLY AFFECTED: Unk	nown		
IV. COMMENTS				
Site Inspection should address all suspected on-site areas with emphasis on burial area (dye wastes) and discharge into creek.				
V. SOURCES OF INFORM	MATION (Cité specific references, e. g., state files,	sample analysis, reports)		
	- Waste Information" rces of Information		_	

GREENSBORO QUADRANGLE NORTH CAROLINA-GUILFORD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) 79°45' 47'30" 609 1 770 000 FEET -, 36°07′30″ Broadview 3997 Loke 860 000 FEET _ Sewage Disposal Resolution Mill Reservoir 3996 White Oak 3995



North Carolina Department of Human Resources Division of Health Services P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor Phillip J. Kirk, Jr., Secretary Ronald H. Levine, M.D., M.P.H. State Health Director 919/733-3446

February 22, 1985

Ms. Denise Bland NC 3012 Project Officer Air and Hazardous Material Division 345 Courtland Street, N.E. Atlanta, GA 30365

Martin-Marietta Quarry

Castle Hayne, NC

Re: Preliminary Assessments Transmittal Letter

Dear Ms. Bland:

Enclosed are Preliminary Assessments completed for the following ERRIS sites in North Carolina:

Armstrong Rubber Co. Laurel Hill, NC	NC D082358854
Ashland Chemical Co. Charlotte, NC	NC D061263315
Ashland Chemical Co. Raleigh, NC	NC D088560032
Ashland Chemical Co. Greensboro, NC	NC D024599011
Ashland Petroleum Co. Greensboro, NC	NC D000828814
Cone Mills Corp./White Oak Plant Greensboro, NC	NC D000776914
Cranston Print Works Co. Fletcher, NC	NC D003150539
Diamond Shamrock Corp. Charlotte, NC	NC D062567623
Diamond Shamrock	NC D042890525

Ms. Denise Bland February 22, 1985 Page 2

Firestone Tire & Rubber Co.

NC D067191262

Wilson, NC

Gardner Mirror Corp. North Wilkesboro, NC NC D003221462

Weyerhaeuser Company

NC D071567259

Moncure, NC

Weyerhaeuser Co./Lewiston

NC D052553641

Lewiston, NC

Weyerhaeuser Co.

NC D991278540

Plymouth Wood Treating Plt.

Plymouth, NC

The Armstrong Rubber Company (NC D082358854) notified under RCRA for corrosive wastes that were placed in drums and a concrete collection pit. Armstrong claims that these wastes have a pH less than 12.5. Based on the proximity of this site and the characteristics of the suspected waste, this site is recommended for a Low Priority for site inspection. A Site Inspection should address any contamination in the area of the collection pit and spillage in the railcar loading/unloading area.

The Ashland Chemical Company (NC D061263315) of Charlotte notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of utilization of an on-site neutralization pit. This site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The <u>Ashland Chemical Company</u> (NC D088560032) of Raleigh notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of utilization of an on-site neutralization pit. The site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The Ashland Chemical Company (NC D024599011) of Greensboro notified under RCRA for storage and treatment of various industrial chemicals and solvents. Treatment consists of an on-site neutralization pit. This site is a RCRA permitted facility (Part B). A Low Priority for Site Inspection is recommended to address any possible contamination not specifically covered during the Part B permitting process. This includes any inadvertent spillage in loading, unloading, repacking, and storage areas.

The Ashland Petroluem Company (NC D000828814) of Greensboro notified under RCRA for treatment and disposal of ignitable and lead wastes. Petroleum tank bottoms were land applied at this site. A Low Priority for Site Inspection is recommended to address the potential for lead contamination on this site.

Ms. Denise Bland February 22, 1985 Page 3

The Cone Mills Corporation-White Oak Plant (NC D000776914) of Greensboro notified under RCRA for container and tank storage of ignitable wastes. An on-site waste dye disposal area is alleged on the southern side of Buffalo Creek. North Carolina Department NRCD has indicated presence of contamination at this site. A Medium Priority for Site Inspection is recommended to address the potential for dye-related contaminants (metals and solvents) on this site.

The Cranston Print Works Company (NC D003150539) of Fletcher notified under RCRA for container and tank storage and tank treatment of chromium wastes and electroplating wastes (F006, F007, F008, F009). Wastes have been disposed of via injection wells, lagoons, and landfilling. Groundwater contamination at this site has been mapped by N.C. Division of Environmental Management. A Medium Priority for Site Inspection is recommended to determine the extent of contamination.

The <u>Diamond Shamrock Corporation</u> (NC D062567623) of Charlotte notified under RCRA for treatment of corrosive wastes, spent non-halogenated solvents, and phenol, and storage of ignitable and corrosive wastes, 1,2-dichloroethane, ethylene oxide, and phenol. Approximately twenty additional materials (P and U-listed wastes) are also utilized either in the plant process or laboratory. A Low Priority for Site Inspection is recommended to address the potential for spillage in storage and loading/unloading areas.

The <u>Diamond Shamrock Martin-Marietta Quarry</u> (NC DO42890525) of Castle Hayne notified under RCRA for disposal of chromium wastes into a surface impoundment (old quarry). Based on the geology of the area, a strong possibility for groundwater contamination exists. RCRA is currently investigating this facility in an attempt to establish if the levels of chromium indicate it to be hazardous. A Low Priority for Site Inspection is recommended to follow-up on RCRA activities at this site.

The <u>Firestone Tire and Rubber Company</u> (NC D067191262) of Wilson notified under RCRA for storage of ignitable wastes, resorcinol, and spent halogenated and non-halogenated solvents in containers (probably drums). Although no knowledge of any spills exists, a Low Priority for Site Inspection is recommended to investigate and determine if any suspected substances might be present.

The <u>Gardner Mirror Corporation</u> (NC D003221462) of North Wilkesboro generates hazardous wastes in the form of non-halogenated solvents used in cleaning mirror back coating equipment. Wastes used to be stored outside in 55-gallon drums. Now stored inside for better spill control. Although no knowledge of any spills exists, a Low Priority for Site Inspection is recommended to determine if any contaminants might be present in suspected locations.

The Weyerhaeuser Company of Moncure (NC D071567259) notified under CERCLA for suspected burial of 10-12 drums of lubricating oil on site by previous owner. A Low Priority for Site Inspection is recommended to determine if the alleged drums are present and if their contents are hazardous.

Ms. Denise Bland February 22, 1985 Page 4

The Weyerhaeuser Company of Lewiston (NC D052553641) - now Louisiana Pacific Company - notified under RCRA for storage of bottom sediment sludge from the treatment of waste waters from wood preserving processes. Pentachlorophenol was used for wood treatment by Weyerhaeuser. It is alleged that slops from the dipping trough were discharged onto the ground on both sides of the dip trough. A Medium Priority for Site Inspection is recommended to determine the extent of contamination at this facility.

The Weyerhaeuser Company of Plymouth (NC D991278540) notified under RCRA for storage of bottom sediment sludge from the treatment of waste waters from wood preserving processes. Chromated copper arsenate (CCA) solution is used at this facility. Although no spills are known, a Medium Priority for Site Inspection is recommended to determine if contamination has occurred. This site produces a very large volume of treated wood.

Sincerely,

Lenox E. Bramble, Environmental Engineer Solid and Hazardous Waste Management Branch Environmental Health Section

LEB/1w/2098A Enclosures



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As is this facility a publicly owned to which results in a discharge to water					mimal feeding operation or			
(FORM 2A)		X 17	1 12		n facility which results in a	10	X	25
C. Is this a facility which currently resu	its in discharges:	Х		D. Is this a proposed facility in A or B above) which	fother than those described will result in a discharge to	1	Y	
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E. Doss or will this facility treat, store hexardous wester? (FORM 3)	e, or dispose of X		x	municipal effluent below	the lowermost stratum con- rter mile of the well bors,		X	
G. Do you or will you inject at this facilit				underground sources of d	rinking weter? (FORM 4)	33	22	33
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lf ax	fa cco	aility unt i	/ re the	cord	ls use any other unit of measure ropriate density or specific gravity	for y af	qui the	entii Was	ty, the un	its of me	ssure mus	t be convi	erted into one of the required units of measure taking into
2 NOT more 1.	D. PROCESSES 1. PROCESS CODES: For listed hezardous wests: For each listed hazardous waste entered in column A select the code/s/ from the list of process codes contained in Item III to indicate how the weste will be stored, treated, and/or disposed of at the facility. For non—listed hezardous westes: For each characteristic or toxic contaminant entered in column A, select the code/s/ from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous westes that possess that characteristic or toxic contaminant. Note: Four spaces are provided for entering process codes, if more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code/s/. 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form. NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows: 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste. 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. 3. Reposit step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.												
per y	EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation, in addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of sech waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.												
Ш	T.	A. 1					UN						D. PROCESSES
NO.	A (0	AZ AS nter	CO CO	NO de)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	1 6	UR ente			1. PROCI	SS CODE	\$ 	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K	0	5	4	900	<u> </u>	P	Ц	T'0'3	D 8 0		' '	
X-2	L	0	0	2	400		P		T'0'3	D'8'			
X-3	E	0	0	1	100		P		T 0 3	D'8'	1		
X-4	L	0	0	2					' '	' '	' '	' '	included with above

Continued from page 2.

NOTE: Photocopy this page before completing if yo _____ve more than 26 wastes to list.

Form Approved OMB No. 158-\$80004

					BER (enter from page 1)	1	7	7			FOR OFFICIAL US			IAL USE				
W N	С	D	0	0	0 7 7 6 9 1 4 2 1		\		į.	W DUP			DUP		12 DUP			
IV. I	_				N OF HAZARDOUS WAS				rueo									
LINE NO.	H / W A (e)	A. E AZ/ IST Iter	PA ARI EN	(F)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	LO	SUF (ent code	EA- lE er	1. PROCESS CODES (enter)			ter)	5	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))				
	22	0	_	*	24000	29	P	1	S	- 1	1 1	0 2	27 - 20	27 - 29				
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Continued	from the front.								
IV. DES	CRIPTION OF HAZARDOUS WAS ES (contin	nued)	OM ITEM D(1) ON PAGE 3						
FNC	D 0 0 0 7 7 6 9 1 4 6		·						
V. FACI	LITY DRAWING			200		1	ţ.		(15)
All existing	ng facilities must include in the space provided on page	e 5 a scale drawin	g of the facility <i>(see instruction</i>	s for more d	etail).				
VI. PHO	TOGRAPHS			100			. ,		; ,
	ting facilities must include photographs (aerial on the and disposal areas; and sites of future storage						stora	ge,	
VII. FAC	CILITY GEOGRAPHIC LOCATION					<i>,</i>		400	
	LATITUDE (degrees, minutes, & seconds)		LONGITUD	E (degrees, n	ninu tes,	. & second	le)		
	3 6 0 6 1 5		72	7 9 4	6	1 5			
VIII. FA	CILITY OWNER							·	
□ A. I	f the facility owner is also the facility operator as lister kip to Section IX below.	d in Section VIII	on Form 1, "General Informati	on", place a	1 "X" i	n the box	to the	left an	d
B. 11	f the facility owner is not the facility operator as listed	d in Section VIII	on Form 1, complete the follow	ving items:					
	1. NAME OF FACILITY	'S LEGAL OWN	ER		2. PI	HONE NO	. (area	code (t no
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E					86 -		-나니	1	<u></u>
	3. STREET OR P.O. BOX		4. CITY OR TOWN		ST.	6.	ZIP CC	ODE	
F		Ġ			П		\Box	\prod	
27 16		0 11 11	•	49 41	닢_	47	<u> </u>	<u> </u>	
IX. OWN	VER CERTIFICATION								
documer submitte	under penalty of law that I have personally exa ets, and that based on my inquiry of those indiv ed information is true, accurate, and complete. I g the possibility of fine and imprisonment.	viduals immedia	itely responsible for obtaini	ng the info	rmatio.	n, I belie	eve tha	at the	
Harpe	(print or type) r J. Elam, III	SIGNATURE	£ 0	6	. DATE	SIGNED			
	President & General Counsel	14.51	· Cram -			11/17,	/80		
X, OPER	RATOR CERTIFICATION	and the second	the state of the s	`		$\sigma_{A} = -\sqrt{t}$	5 W 1	100	
documer submitte	under penalty of law that I have personally exa nts, and that based on my inquiry of those indiv and information is true, accurate, and complete. I by the possibility of fine and imprisonment.	viduals immedia	itely responsible for obtaining	ng the info	rmatio	n, I belie	eve tha	at the	
A. NAME	: (print or type)	AM		6	. DATE	SIGNED	l		

V. FACILITY DRAWING (see page 4)

JG TH STREET 2,200'± WHITE OAK PLANT HAZARDOUS WASTE STORAGE BLOG. DYE WASTE DISPOSAL CREEK 2,200'±

SCALE: 1"=500"

CONE MILLS CORP. WHITE OAK PLANT GREENSBORO, N.C.



DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

November 5, 1984

Mr. T. A. Alspaugh Cone Mills Corporation 1201 Maple Street Greensboro, N.C. 27405

Dear Mr. Alspaugh:

As a follow-up to our telephone conversation on November 2, 1984, I would like to request information concerning the Cone Mills Corporation/White Oak Plant site in Greensboro, N.C.. The Solid and Hazardous Waste Management Branch is evaluating a list of potential problem sites compiled under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Program.

Please provide any documentation or explanations that would describe the following activities since the start-up of operations at your plant site:

- Waste storage, treatment, and disposal practices of RCRA hazardous wastes. Include types, amounts, transporters, and disposal locations and dates for each waste.
- Waste storage, treatment, and disposal practices for other toxic or hazardous substances not regulated by RCRA but designated as a hazardous substance under CERCLA (example PCBs). Include types, amounts, transporters, and disposal locations and dates for each waste.
- 3. Information concerning releases of CERCLA and/or RCRA hazardous substances both on your plant site, or off-site; such as spills of feedstocks, waste waters, materials at transfer areas, leaking storage tanks, and other waste handling and/or recovery areas with descriptions of any remedial actions undertaken.
- 4. Any chemical analysis results indicating soil, groundwater, or surface water contamination as a result of hazardous substance releases that have occurred. Identify locations of any groundwater monitoring wells or other sampling points used to monitor areas of potential concern.



- 5. Provide a chronological history of site owners and/or operators where applicable. Identify date facility was established.
- 6. Include copies of any notifications of correspondence made to the United States Environmental Protection Agency or the State of North Carolina in reference to possible CERCLA site activities and/or releases.
- 7. Provide a general description of plant operations and processes.
- 8. Provide a list of permits issued to this site (example NPDES, RCRA, RCRA Interim Status). Include permit number, date issued and expiration date.

This information will be used to assess and process this site through the RCRA Section 3012 System. The information will be on file at the North Carolina Solid and Hazardous Waste Management Branch 3012 Office and copies will be forwarded to the United States Environmental Protection Agency, Region IV in Atlanta, Georgia, in the near future.

Your assistance in compiling this information is very much appreciated. Please contact me at (919) 733-2178 if you are not able to complete this information request within the next four weeks. I am enclosing information on the RCRA 3012/CERCLA Program for your use.

If you have questions or if I can be of any assistance, please contact me.

Sincerely,

Lenox E. Bramble Environmental Engineer

Lene E. Branck

Solid & Hazardous Waste Mgt. Branch Environmental Health Section

LEB:1w/1299A



DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

May 21, 1984

T. A. Alspauch Cone Mills Corp White Oak Plant 2420 Fairview Street Greensboro, NC 27405 EPA NUMBER: NCD000776914

Dear Mr. Alspauch:

The United States Environmental Protection Agency has granted the State of North Carolina Interim Authorization for Phase II Components A and B to operate the State's Hazardous Waste Management Program in lieu of the Federal Program under the RCRA.

Section 3007(a) authorizes access to facilities which handle hazardous waste. Access is granted to 'duly designated' officers or employees of the EPA (or State, if that State has a hazardous waste program authorized under section 3006 of the Act.)

Pursuant to section 3006 and N.C.G.S. 130-166.18, an inspection was conducted 05/11/84 by Mr. Joseph H. Deakins, Solid and Hazardous Waste Management Branch. The inspection revealed compliance with the regulations. This office wishes to thank you for your cooperation. Please do not hesitate to contact us if we may be of future assistance.

Sincerely,

No Strickland, Head

Solid and Hazardous Waste

Management Branch

Environmental Health Section

copy: Joseph H. Deakins



James B Hunt, Jr DEPARTMENT OF HUMAN RESOURCES



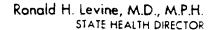
Ronald H. Levine, M.D., M.P.H. STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

	Date: 5-11-84	ECEIV
MEMORANDUM	MA	Y 14
то:	O. W. Strickland, Head Solid & Hazardous Waste Management Branch	
FROM:	Muste Mat. Spic.	1 64
NAME:	Con Mills Corp. White bak Flant 2420 Fairview St. (City) Dreenston 274 65	-
EPA ID No.:	NED 000776914	
CONTACT:	T.A. ALSPAUCH (print)	
	enerator, () Transporter, () Interim Status, () Final Status, aspection was conducted on $\frac{5-1/-84}{\text{mo/day/yr}}$. The i	
() semi-annu	be classified as a () annual inspection, (Gen, Trans.), ual inspection (TSD), () follow-up inspection, () other, see instruction on back)	·····
() all previous ones of	oject company was found ($ u u u u u u u u u u u u u u u u u u u$	- !
A compliance o	date of was established.	

DHS 3218 3/84 Solid & Hazardous Waste







DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

April 24, 1984

T. A. ALSPAUGH Cone Mills Corp White Oak Plant 2420 Fairview Street Greensboro, NC 27405 EPA NUMBER: NCDO00776914

Dear T. A. ALSPAUGH:

The United States Environmental Protection Agency has granted the State of North Carolina Interim Authorization for Phase II Components A and B to operate the State's Hazardous Waste Management Program in lieu of the Federal Program under the RCRA.

Section 3007(a) authorizes access to facilities which handle hazardous waste. Access is granted to 'duly designated' officers or employees of the EPA (or State, if that State has a hazardous waste program authorized under section 3006 of the Act.)

Pursuant to section 3006 and N.C.G.S. 130-166.18, an inspection was conducted 04/09/84 by Mr. Joseph H. Deakins, Solid and Hazardous Waste Management Branch. The inspection revealed noncompliance in several areas. Attached is a copy of the inspection report which denotes the deficiencies.

A compliance date of 05/18/84 has been established for the correction of these deficiences. If you have any questions pertaining to this subject, please contact Mr. William Paige, Environmental Chemist, at (919) 733-2178.

Sincerely,

O. W. Strickland, Head Solid and Hazardous Waste

Management Branch

Environmental Health Section

GENERATOR INSPECTION FORM - PART 262

Name of Site Cone Mills Corp White Oa	k Plant	EPA I.D. NCD000776914	Guil	County ford
Location Greensboro	NC 27405	Inspection Date 04 / 09 / 84	JOSEP	Inspector H H. DEAKINS
Compliance Date 05 / 18 / 84		2	Facility C	
An inspection of your violations, if any, m			and you ar	e notified o
SUBPART A -	GENERAL			
Subpar Subpar 2. EPA Ident EPA ge	Waste Determit D waste (b) t C waste (c)(ification Number ansporter/faci	pers (a)		
SUBPART B -	THE MANIFEST			
_ proper	equirements (2 manifest (a) ted facility (
docume genera transp facili D.O.T total	Information (2 nt number (a)(tor identificat orter identificat ty identificat description (quantity (a)(6 ication (b)	(1) ation (a)(2) acation (a)(3) acion (a)(4) (a)(5)		·
	Copies (262.2 m number	22)		
_ genera _ transp _ retain	e Manifest (26 tor handwritte orter signatur copy (a)(3) to transporte	en signature (a)(1) ce/date (a)(2)		

```
SUBPART C - PRE-TRANSPORT REQUIREMENTS
 7. Packaging (262.30)
    _ D.O.T. compliance
 8. Labeling (262.31)
    _ D.O.T. compliance
 9. Marking (262.32)
      D.O.T. compliance (a)
      'HAZARDOUS WASTE' label (b)
10. Placarding (262.33)
    _ D.O.T. compliance
11. Accumulation Time (262.34)
   _ Subpart I; J (a)(1)
    accumulation date (a)(2)
'Hazardous Waste' (a)(3)
    \overline{X} Subpart C; D (a)(4)*
    personnel training (a)(4)
      under remarks.
 SUBPART D - RECORDKEEPING AND REPORTING
12. Recordkeeping (262.40)
   _ manifest retention (a)
    ___ biennial/exception report (b)
    test/waste analysis (c)
13. Biennial Reporting (262.41)
    \underline{\phantom{a}} submitted (a)(1-6)
     submitted (b)
14. Exception Reporting (262.42)
     transporter contact (a)
      exception report (b)(1)(2)
```

Remarks: 265.52(F)

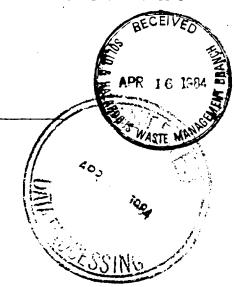


WMY/CKI

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: 4-9-84



MEMORANDUM

TO:

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

FROM:

J. H. Lienkin

Maste mot Seec.

NAME:

Cone Willo Core, White Bak Flant

2420 Fairerau St. (City) Dress born 37 405

EPA ID No.:

NCD00077691-

CONTACT:

T.A. ALSPAUGH

A RCRA (\mathcal{W} Generator, () Transporter, () Interim Status, () Final Status, compliance inspection was conducted on $\frac{\mathcal{U} - \mathcal{G} - \mathcal{G} \mathcal{V}}{\text{mo/day/yr}}$. The inspection can be classified as a (\mathcal{W} annual inspection, (Gen, Trans.), () semi-annual inspection (TSD), () follow-up inspection, () other,

specify (see instruction on back)

The above subject company was found () in full compliance (\checkmark in violation () all previous violations existing () previous violations corrected - but new ones exist() previous violations existing along with additional ones. (Note: You should complete a check sheet to signify the additional violations).

A compliance date of $\frac{5-18-84}{\text{mo/day/yr}}$ was established.

DHS 3218 3/84 Solid & Hazardous Waste



	EPA 1.D. $NC \cdot DCC 776914$ Signature of $A = 9 - 84$
Compliance Date 27405	Signature of Faci
5-18-84	D. W. W
An inspection of your facility has been made this below with a cross (X).	date and you are notified of the violations, if any,
SUBPART A - GENERAL	SUBPART C - PRE-TRANSPORT REQUIREMENTS
1. Hazardous Waste Determination (262.11)	7. Packaging (262.30)
Subpart D waste (b)	D.O.T. compliance
Subpart C waste (c)(1)(2)	·
	8. Labeling (262.31)
2. EPA Identification Numbers	D.O.T. compliance
EPA generator number (a)	
EPA transporter/facility (c)	9. Marking (262.32)
_	D.O.T. compliance (a)
	"HAZARDOUS WASTE" label (b)
SUBPART B - THE MANIFEST	
	10. Placarding (262.33)
3. General Requirements (262.20)	D.O.T. compliance
proper manifest (a)	<u> </u>
permitted facility (b)	<pre>11. Accumulation Time (262.34)</pre>
	Subpart I; J (a)(1)
	accumulation date (a)(2)
	"Hazardous Waste" (a)(3)
4. Required Information (262.21)	X Subpart C;(D)a)(4)*
document number (a)(1)	personnel training (a)(4)*
generator identification (a)(2)	per some craiming (4/(4/
transporter identification (a)(3)	*Cite specific violations of 40 CFR 265
facility identification (a)(4)	under remarks
D.G.T. description (a)(5)	
total quantity (a)(6)	SUBPART D - RECORDKEEPING AND REPORTING
certification (b)	No Ne or or and
	12. Recordkeeping (262.40)
5. Number of Copies (262.22)	manifest retention (a)
minimum number	annual/exception report (b)
IRTITION TONGET	test/waste analysis (c)
6. Use of the Manifest (262.23)	
generator handwritten signature (a)(1)	
transporter signature/date (a)(2)	
retain copy (a)(3)	
copies to transporter (b)	
and orking an emphasized to	
DHS FORM 3010 (Rev. 9-83)	

SOLID & HAZARDOUS WASTE

Com M. White Cak Flo + 4-9-84

13. Annual Reporting (262.41)
submitted (a)(1-6)
submitted (b)
14. Exception Reporting (262.42)
transporter contact (a)
exception report (b)(1)(2)
REMARKS: Niolation:
265.52(4) - Content of contingency plan
265.52(f) - Content of contingency plan evacuation plan





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

October 12, 1983

Mr. Tom Alspaugh Cone Mills Corp., White Oak Plant 2420 Fairview Street Greensboro, NC 27405 NCD000776914

Dear Mr. Alspaugh:

Our administrative records indicate that your facility has voluntarily selected not to apply for a final status permit for the management of hazardous waste.

Administrative procedures for final permit decisions, as outlined in 40 CFR 124 and adopted in 10 NCAC 10F .0035, requires formal denial of a final status permit.

This notification constitutes formal denial of a final permit and termination of interim status for the treatment, storage for more than 90 days, and disposal of hazardous waste at your facility.

Your facility is further notified that there are substantial penalties for future hazardous management activity that requires a permit.

If we can be of any assistance or if you have any questions concerning this denial, please contact me.

Sincerely

O. W. Strickland, Head

Solid & Hazardous Waste Management Br.

Environmental Health Section

OWS:ct

cc: Steve Phibbs William Paige





DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

July 25, 1983

CERTIFIED MAIL

Tom A. Alspaugh Cone Mills White Oak Plant 4100 Pleasant Garden Road Greensboro, NC 27405

Dear Mr. Alspaugh:

On March 3, 1983 your plant at Greensboro, NC, EPA ID No. NCD000776914, received a change in its status under the Resource Conservation and Recovery Act which removed it from our list of treatment, storage, or disposal facilities. This change was granted because your company elected to change its waste-handling procedures rather than complete the process of filing a part B permit application. We assume that your company is aware that this decision carries with it the termination of "interim status" for this plant. This means that it can no longer treat, store, or dispose of hazardous waste without going through the full process of applying for a permit and receiving one.

Our office is now in the process of terminating interim status for all plants which have been asked to supply part B of a permit application and have chosen not to do so.

There is a well-defined procedure for carrying out this particular action, and we are writing you primarily so that you will have advance notice.

Essentially, we plan to publish a public notice like the enclosed example. At the foot of it we will list the affected companies, together with the nature of their hazardous waste activity while under interim status.

As indicated in the public notice, a period will be allowed for comment, and a public hearing will be held if any basis for it is developed.



Tom A. Alspaugh Page 2 July 25, 1983

If you have any objections or comments, please make them to this office in writing within thirty days. Our address is:

Solid and Hazardous Waste Management Branch Division of Health Services P. O. Box 2091 Raleigh, NC 27602

Very truly yours,

O. W. Strickland, Head

Solid & Hazardous Waste Managment Branch

Environmental Health Section

OWS:dwm

Enclosure

PUBLIC NOTICE

The N. C. Department of Human Resources proposes to allow the termination of interim status for specific regulated hazardous waste management activities at facilities identified on the attached list. The termination of interim status in all cases is based upon the facilities' voluntary alteration or modification of waste management practices and voluntary request to withdraw from a regulated status. The justification to terminate interim status is described in 40 CFR 270.10(e) as adopted in 10 NCAC 10F .0034. This consists, administratively, of a formal non-issuance of a final status permit as per procedures outlined in 40 CFR 124 as adopted in 10 NCAC 10F .0035.

All persons who believe that the tentative decision to terminate interim status through the above-described mechanism is inappropriate should raise all ascertainable issues and submit all available arguments and the factual grounds supporting their position by September 1, 1983. Copies of such comments should be submitted to Mr. O. W. Strickland, Head, Solid & Hazardous Waste Management Branch, Division of Health Services, P. O. Box 2091, Raleigh, NC, 27602.

A public hearing will be held if sufficient written notices of opposition are received pertaining to the proposed termination of interim status at specific facilities. Any request for a hearing shall be in writing and state the nature of issues proposed to be raised in the hearing. Requests for a hearing should be submitted to Mr. O. W. Strickland at the above address.



DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: May 4, 1983

Mr. Tom Alspaugh Cone Mills, Inc. 2420 Fairview St. Greensboro, NC 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

Add As	<u>Delete As</u>	
		generator
		transporter
		treater
	\boxtimes	storer
		disposer
		small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is ____ is not \overline{\overline{\chi}} being cancelled.

Cordially,

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

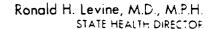
Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn Braun

DHS Form 3048 3/82 Nolid & Haz. Waste Mgt. Branch





APR 12 1983



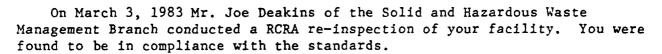
DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

March 21, 1983

Mr. T. A. Alspaugh Cone Mills Corporation 2420 Fairview Street Greensboro, NC 27405

RE: NCD000776914

Dear Mr. Alspaugh:



This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

0. W. Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS:nlc

cc: Mr. Joe Deakins





Keith



Ronald H. Levine, M.D. M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: March 16, 1983

Mr. T. A. Alspaugh Cone Mills Corporation 2420 Fairview St. Greensboro, N. C. 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

Add As	<u>Delete As</u>	
X		generator
		transporter
		treater
	\boxtimes	storer
		disposer
		small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is is not being cancelled.

Cordially.

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn J. Braun

DHS Form 3048 3/82 Solid & Haz. Waste Mgt. Branch





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR



DIVISION OF HEALTH SERVICES NORTH CENTRAL REGIONAL OFFICE 720 Coliseum Drive-Plaza West Winston-Salem, N.C. 27106 (919) 761-2390

March 4, 1983

MEMORANDUM

TO:

O.W. Strickland, Head

Solid and Hazardous Waste Management Branch

FROM:

J.H. Deakins, District Sanitarian

North Central Regional Office

SUBJECT:

RCRA Re-Inspection

Company: Cone Mills Corporation

2420 Fairview Street Greensboro, N.C. 27405

Contact: T.A. Alspaugh, Manager Air & Water

EPA ID# NCD000776914

A RCRA re-inspection was conducted on March 3, 1983. The facility was in compliance.

JHD:kd

Enclosure



1) Facility Information

Cone Mills Corporation 2420 Fairview Street Greensboro, N.C. 27405

EPA ID# NCD000776914

2) Facility Contact

T.A. Alspaugh, Manager Air and Water

3) Survey Participants

T.A. Alspaugh

J.H. Deakins, Waste Management Specialist

4) Date of Inspection

March 3, 1983

5) Applicable Regulations

No change

6) Scope of Survey

No change

7) Facility Description

Cone Mills has requested a change from generator and storage to generator only. (See attached form). Otherwise no change. The plant was checked for generator standards.

8) Site Deficiencies

None

9) Compliance Schedule/Recommendations

None

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Nai	ene Wilk Corp.	NCD 00077691	4		ΰĴι	county	and
Lo	420 Fairview St. D	305 Inspection Date	<u></u>	51gpa	bure	of Was	pector(s
Cor	npliance Date	wwwwow-) o	Signa;	ure o	- F&C	ility	Contact
• • • • • • • • • • • • • • • • • • • •			<u> </u>	4	. (18/	MIL
1163		icate Compliance (C), NonCo te specific violation by Se			C) or	Not/	
	GE	NERATOR STANDARDS (262.00)	<u> </u>	NC .	<u>NA</u>	Viola	tion(s)
١.	GENERAL (.1012)		1				
2.	THE MANIFEST (.2023)		1				
3.	PRE-TRANSPORT REQUIREMENTS (.30	34)	12121	_			
4.	RECORDKEEPING/REPORTING (.404)	3)	V				
5.	SPECIAL CONDITIONS (.5051)		<u>1/</u>				
	<u>TR</u> .	ANSPORTER STANDARDS (263.00	<u>)</u>				
١.	GENERAL (.1112)						
2.)					
3.	HAZARDOUS WASTE DISCHARGES (.30-						
	TSI	DF STANDARDS (265.00)				•	
١.	GENERAL (.14)						
2.	GENERAL FACILITY STANDARDS (.10-	17)					
3.	PREPAREDNESS AND PREVENTION (.3037)						· ·
	CONTINGENCY PLAN AND EMERGENCY PROCEDURES (.5056)			_			
; .	MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (.7077)						
5.	GROUND-WATER MONITORING (.9094)						
7.	CLOSURE AND POST-CLOSURE (.110-						
3.	•						
}.	USE AND MANAGEMENT OF CONTAINERS						
) .	TANKS (.190199)	•					
	SURFACE IMPOUNDMENTS (.220230))					
	WASTE PILES (.250257)						
	LAND TREATMENT (.270282)						
	LANDFILLS (.300315)						
	INCINERATORS (.340351)						
	THERMAL TREATMENT (.370382)						
		00406)					
	UNDERGROUND INJECTION (.430)						
-							
GE	RA STATUS NERATOR TRANSPORTER TRE		SPOSER				. ——

DHS Form 3010 (Rev. 12-82) SOLID & HAZARDOUS WASTE





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

Date: March 3, 1983

Mr. T. A. Alspaugh Cone Mills Corporation 2420 Fairview St. Greensboro, N. C. 27405

Re: Facility ID No. NCD000776914

Dear Mr. Alspaugh:

Based on information supplied by you we have processed and accepted at the State level your request for the facility identified with the above ID number to receive the indicated change in classification under RCRA:

Add As	Delete As	
		generator
		transporter
		treater
	\boxtimes	storer
		disposer
		small generator

We are advising EPA of the change in your status. Please notify us if there is any further change in your operations which would again affect your status. Your EPA ID NO. is is not being cancelled.

Cordially,

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS

cc: Doug McCurry
EPA Region IV
Emil Breckling
Joe Deakins
Marilyn J. Braun

DHS Form 3048 3/82 Solid & Haz. Waste Mgt. Branch



Department of Human sources
Division of Health Strvices
Solid & Hazardous 4ste Management Branch

APPLICATION FOR CHANGE IN CLASSIFICATION UNDER RCRA

Date: ____March 3, 1983

•	Company Name:	Cone Mills Corporation
	Company Address:	Greensboro, NC 27405
	EPA ID No:	NCD000776914
fr. O. W. Strickland, Solid & Hazardous Was Division of Health Serv. 2091 Raleigh, N. C. 27602	te Management Branch	•
ear Mr. Strickland:		
Our company reque		ge in its classification under
Add As	Delete As	•
X		generator
		transporter
		treater
	X	storer
		disposer
		small generator
Our reason for th	nis request is:	
Not storing any	hazardous wastes over 9	O days.
 		
a new calculati .waste, etc. Be	on of the volume of you specific. Please note	may be a change in your process, or waste, new analyses of your e that this is not a petition equires totally different handlin
If your request to tain your EPA ID No.		gulated system, but you wish to
Wish to remain	classified as a generato	r.
		· · · · · · · · · · · · · · · · · · ·
	(over)	
	(over)	
		·

I understand that my company must supply information about any changes in its operations which might change its status again on its own initiative.

I certify that the information supplied is accurate and correct to the best of my knowledge and belief. I am authorized to make this request on behalf of my company at the location given.

Signature:

I. A. Alsbauch

Company Title:

Manager, Water & Air Resources

CANTE HALVE

PLEASE
THIS. TCK

CONE MILLS CORPORATION

GREENSBORO, N. C. 27405

February 28, 1983

Mr. Thomas C. Karnoski Environmental Engineer Solid & Hazardous Waste Management Branch Environmental Health Section Division of Health Services P.O. Box 2091 Raleigh, NC 27602-2091

Re: Hazardous Waste Management Permit Application Cone Mills Corporation White Oak Plant Greensboro, NC 27405

Dear Mr. Karnoski:

Following our phone converation, we discussed the situation with our White Oak Plant and have decided to take your suggestion. We would like to request a change of the White Oak Plant status from generator/storer to generator only.

We will continue to maintain this emergency storage facility as a hazardous wastes storage area for emergency use only.

Sincerely

T. A. Alspaugh

Manager, Water & Air Resources

1t

cc: Mr. Garland Coffer Mr. Arthur J. Toompas





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

February 4, 1983

T. A. Alspaugh, Manager Water and Air Resources Cone Mills Corporation 2420 Fairview St. Greensboro, N. C. 27405 NCD000776914

SUBJECT: Hazardous Waste Management Permit Application Addendum

Dear Mr. Alspaugh:

I received two copies of the subject addendum on February 2, 1983. A review of its completeness has not been completed at this time.

Your cover letter indicates that your facility does not intend to store hazardous waste on a routine or regular basis. This office is of the opinion that the Cone Mills Corporation facility does not need a hazardous waste management permit if the intended storage is to be for accidental spill cleanup residues. Enclosed is a copy of the January 19, 1983, Federal Register supporting this contention.

This office will continue to process your application in the normal manner. However, the regulating of your facility as a hazardous waste storage facility does not meet the intent of the Hazardous Waste Management Regulations. I urge you to consider requesting a change of status to a generator only.

If you have any questions, please contact me.

Sincerely,

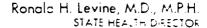
Jones C. Karnes

Thomas C. Karnoski, Environmental Engineer Solid & Hazardous Waste Management Branch

Environmental Health Section

TCK:ct

cc: Steve Phibbs





DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

December 20, 1982

Mr. Tom Alspaugh, Manager Water and Waste Cone Mills Corporation 2420 Fairview St. Greensboro, N. C. 27405

Dear Mr. Alspaugh:

This office received an application for a hazardous waste storage permit from the company you represent on October 1, 1982. The application has received a preliminary review, and while found to have certain deficiencies, is considered by this office to constitute a complete application. This letter shall become the notification of completeness of Cone Mills' application. The date of this letter is the effective date of the application (40 CFR 124.3(f) as adopted in NCAC 10F .0035).

The following items need to be addressed, clarified, or expanded upon before this office can continue its technical review:

- I. The modified Part A indicates that the intended waste to be handled will be hazardous by ignitability characteristic. It will be necessary to more accurately determine the constituent (or blend of constituents) that will make up your potential hazardous waste stream. Toxicity characteristics for various ignitable solvents can dictate necessary waste analysis protocol, emergency response procedures, and closure plan requirements in the rest of the permit application.
- II. The Part A of the application is a modification of the Part A submitted when the facility received interim status. Any modification requires the submission of an original.
- III. Facility Description The prevailing wind speed at the facility is needed as required in 40 CFR 122.25 (a)(19)(v) as adopted in NCAC 10F .0034.
- IV. Waste Characteristics The detailed waste analysis as required in 40 CFR 122.25 (a)(3), 264.13 (b), (c) and adopted in NCAC 10F .0034 and .0032 should include more detail and justification on sampling protocol, sampling methods, frequency of analysis, post-sampling procedures prior to analysis, and analytical methods. This detail could be provided by referencing applicable sections of SW-846, "Test Methods for Evaluating Solid Waste," EPA 1980.



Mr. Tom Alspaugh Page 2 December 20, 1982

Should this facility accept hazardous waste from other Cone Mills plants, what procedures will be used to guarantee that the received waste will be of a type this application is filed for?

- V. <u>Process Information</u> Since the facility's waste water treatment plant is to be used to handle spillage and decontamination residues, this office requires demonstration that the intended wastes can be handled with the existing NPDES permit.
- VI. Procedures To Prevent Hazards A more detailed description of decontamination equipment is needed to determine its appropriateness. This may well depend upon the more specific identification of the waste constituents as requested in item I. This request is also appropriate for the contingency plan, specifically, 40 CFR 264.52 (e) as adopted in NCAC 10F .0032.
- VII. Contingency Plan While the contingency plan lists available safety and emergency response equipment, no mention is given to its deployment or use by plant personnel. Please submit a statement identifying what groups of individuals will use this equipment.
- VIII. Closure Plans, Post-Closure Plans, and Financial Requirements
 Closure plans specifically refer to decontamination of the
 storage facility. What equipment/methodologies will be used
 for decontamination and what criteria will be used to determine
 that it has been effective?
 - IX. Documentation of financial responsibility for liability coverage and closure is not adequate. Cone Mills has submitted the financial test to meet these requirements, but has not submitted the written opinion and report of an independent certified public accountant.

As stated earlier, the information listed above is required before this office can determine the suitability of the application. I am requesting the submittal of the additional items by March 1, 1983. If you have any questions or desire clarification on specific points, please contact William Paige or me (phone-919-733-2178) at your convenience.

Thomas C. Harnosle

Thomas C. Karnoski, Environmental Engineer Solid & Hazardous Waste Management Branch Environmental Health Section

TCK:ct cc: Steve Phibbs



DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

October 5, 1982

Mr. Tom Alspaugh Cone Mills - White Oak Plant 2420 Fairview Street Greensboro, NC 27405

Dear Mr. Alspaugh:

On September 21, 1982 Mr. Steve Phibbs of the Solid and Hazardous Waste Management Branch conducted a RCRA inspection of your facility. You were found to be in compliance with the standards.

This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

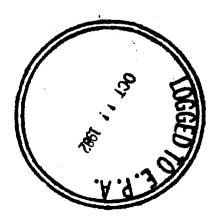
0. W. Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS:nlc

cc: Mr. Steve Phibbs



Ronald H. Levine, M.D., M.P.H.

OCT 19 1982

STATE HEALTH DIRECTOR





DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091

October 5, 1982

MEMORANDUM

TO:

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

FROM:

Keith Lawson

Environmental Chemist

SUBJECT: Interim Status Inspections of the following Cone Mill Plants

√1. Forest City, 101 Depot Street, Forest City, NC 28043 (NCD003150620)

2. Cliffside, Main Street, Cliffside, NC 28024 (NCD003150612)

3. Henrietta, Highway 221-A, Henrietta, NC 28076 (NCD000776971)

In addition to Mr. Alspaugh, Mr. John Scoville and Mr. Ed Sattler were present for Cone Mills.

None of these plants is involved in hazardous waste activity. The principal activity involved is dyeing and finishing of greige goods. All chemicals which might be considered hazardous by characteristic are used up in process. Any slight amounts left over go to the local POTW, either the Forest City or the Cliffside sanitary district. Softeners and sizes are also used; these are not hazardous wastes in any case. A certain amount of caustic soda is used; most of this is neutralized in the process of using it, and any excess is neutralized in line before discharge to the POTW.

Cone Mills is apparently very much afraid of chlorinated solvents. Such solvents as are used to clean machinery, etc., are nonchlorinated solvents of high flash point--over 140°F.

We were requested to take these plants out of the RCRA system; will be done promptly.

The contact man for all three locations is Mr. Tom Alspaugh, w operates out of Greensboro. Correspondence should be addressed him at 4100 Pleasant Garden Road, Greensboro, NC 27405. Date inspection: September 29, 1982.

KL:1c







DIVISION OF HEALTH SERVICES NORTH CENTRAL REGIONAL OFFICE 720 Coliseum Drive-Plaza West Winston-Salem, N.C. 27106 (919) 761-2390

September 23, 1982

MEMORANDUM

TO:

O.W. Strickland, Head

Solid and Hazardous Waste Management

Branch

FROM:

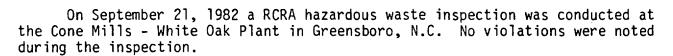
Steve Phibbs, District Sanitarian

North Central Regional Office

SUBJECT: Hazardous Waste Inspection

COMPANY: Cone Mil-1s - White Oak Plant

2420 Fairview Street Greensboro, N.C. 27405 E.P.A. ID#NCD000776914



SP:kd



1) Facility Information

Cone Mills - White Oak Plant 2420 Fairview Street Greensboro, N.C. 27405

2) Facility Contact

Tom Alspaugh

3) Survey Participants

Tom Alspaugh, Cone Mills Arthur Toompas, Cone Mills Steve Phibbs, District Sanitarian, DHS

4) Date of Inspection September 21, 1982

5) Applicable Regulations 40 CFR Part 262 and Part 265

6) Scope of Survey
No change

7) Facility Description

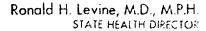
No change 4) Addendum - Cone Mills is no longer using chlorinated solvents in the plant operations. Company policy requires that the use of less toxic and less hazardous solvents for cleaning.

8) Site Deficiencies
None

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT FACILITIES

Yany 	ne Mills Corp-White Clak Flant	No	10000	County 776414	Leuko
oc.	Fairiew St., Breendon, N.C. 2746	Signa Signa	ature of	Facility Inspecto	211H-
e N	TRUCTIONS: Place a check to indicate Complian	Stew	e this	and the	
	Applicable (NA). Cite specific vi	olatio	n by Sect	ion No.	
_		<u>C</u>	<u>NC</u>	<u>NA</u>	Violation(s
١.	GENERAL				
2.	GENERAL FACILITY STANDARDS				
3.	PREPAREDNESS AND PREVENTION	~		 -	
4.	CONTINGENCY PLAN AND EMERGENCY PROCEDURES				
5.	MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	<u>~</u>			
6.	GROUND-WATER MONITORING			<u>~</u>	
7.	CLOSURE AND POST-CLOSURE	~			
8.	FINANCIAL REQUIREMENTS			<u> </u>	
9.	USE AND MANAGEMENT OF CONTAINERS .				
0.	TANKS			V	
١.	SURFACE IMPOUNDMENTS			_	
2.	WASTE PILES			_	
3.	LAND TREATMENT			_	·
4.	LANDFILLS			~	<u> </u>
5.	INCINERATORS			\frac{}{}	
6.	THERMAL TREATMENT			<i></i>	
7.	CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT			V	·
18.	UNDERGROUND INJECTION			<u></u>	
	Menerator, TSD Hacitty		YES		NO
_	Imminent haza	rd	()		(—

DHS Form 3010 (7-81) SOLID & HAZARDOUS WASTE





DIVISION OF HEALTH SERVICES P.O. Box 2091 Raleigh, N.C. 27602-2091 File

June 9, 1982

Mr. T. A. Alspaugh Cone Mills Corporation 4100 Pleasant Garden Road Greensboro, NC 27405

Dear Mr. Alspaugh:

EPA has not developed a permit application form and considers the regulations to be a guide for permit application. The Solid and Hazardous Waste Management Branch is developing a permit application form and will send this form to permit applicants when developed. However, lack of a permit application form does not release an applicant from the responsibility of addressing information outlined in the regulations. We hope the request will be mute and we can get the form prepared in time for your application to be submitted.

Respectfully,

William L. Meyer, Environmental Engineer Solid & Hazardous Waste Management Branch

Environmental Health Section

WLM:nlc



CONE MILLS CORPORATION

4100 Pleasant Garden Rd.

GREENSBORO, N. C. 27405

April 15, 1982



Mr. O. W. Strickland, Head Solid & Hazardous Waste Management Branch Environmental Health Section Department of Human Resources P. O. Box 2091 Raleigh, NC 27602

Dear Mr. Strickland:

We received your letter regarding our facility Id. number NCD000776914 requesting Part B of our application for a hazardous waste facility permit. Would you please send us some Part B forms so that we can fill them out?

Sincerely,

T. A. Alspaugh

Manager, Water & Air Resources

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EPA has not developed a penmit

Application form and considers the Resulations

to be a quine for penmit application. The Sold of Hos.

to be a quine for penmit application. The Sold of Hos.

where the Brond is decemped a penmit applicants when diveloped.

where send this form to penmit applicants when does not however, lack a permit application form does not release An applicant from the responsibility of addition release An applicant from the regulations. We hope the requisition for your application the Submitted form propared in time for your application to be submitted.





JAMES B. HUNT, JR.

DEPARTMENT OF HUMAN RESOURCES

SARAH T. MORROW, M.D., M.P.H. SECRETARY

Division of Health Services

P. O. Box 2091

Raleigh 27602

Ronald H. Levine, M.D. Acting Director

August 18, 1981

Mr. T. A. Alspaugh Cone Mills Corporation White Oak Plant 2420 Fairview Street Greensboro, NC 27405

NCD 000 776 9/4

Listings of Hazardous Waste Activities

Dear Mr. Alspaugh:

According to your July 27, 1981 correspondence, all Cone Mill plants in North Carolina can properly be classified under Part 261.5, 40 CFR, Special Requirements for Hazardous Waste Generated by Small Quantity Generators.

As noted in the correspondence, the Greensboro plant would retain its classification as a storage facility. It is this departments understanding that hazardous waste generated by any Cone Mill plants will be transported to Greensboro.

The Solid and Hazardous Waste Management Branch concurs with the above proposal provided that the below conditions are met.

- (1) Compliance with Part 261.5, 40 CFR.
- (2) White Oak Plant (storage facility) complies with Parts 261-265, 40 CFR where applicable.

If you have any questions concerning this matter, please contact our office at (919) 733-2178.

Sincerely,

William Paige, Environmental Chemist

Solid & Hazardous Waste Management Branch

Environmental Health Section

WP:1c

cc: Mr. Joe Deakins

Mr. Steve Phibbs

Mr. Jim Moore

Mr. Rick Doby

CONE MILLS CORPORATION

Greensboro, N. C. 27405

August 5, 1981

Mr. William Paige
Solid & Hazardous Waste Management Branch
Environmental Health Section
Division of Health Services
Department of Human Resources
State of North Carolina
P. O. Box 2091
Raleigh, North Carolina 27602



Re: PCB Transformer Blowup Cone Mills Corporation Salisbury Plant Salisbury, NC

Dear Mr. Paige:

On Sunday morning, August 2, 1981, as the Salisbury Plant was starting up machinery after the vacation week shutdown, a 1000 KVA transformer blew up. This transformer contained 261 gallons of a PCB transformer fluid. The blowup caused the seal inside the air vent to rupture which sprayed some droplets of the PCB fluid onto a concrete wall and a brick wall beside the transformer, however, none spilled onto the concrete pad under the transformer. The transformer was taken out of service and inspected and it is estimated that about 50-100 mls of PCB fluid were lost.

The plant immediately reported (8:00 am) this incident to Greensboro and asked for instructions. They were instructed to clean the air vent, the walls (droplet area), and any areas on the transformer that may have received any PCB spray and the concrete pad with kerosene. This to be done three times. Absorbent material would then be placed on the pad to catch any dropped kerosene. The rags used, rubber gloves and absorbent material to be placed in drums. Any other material that could have been contaminated with PCB's during the cleanup operations to be cleaned with kerosene and the contaminated material (clothes) and/or the kerosene used placed in the drums. An earthen area located near the concrete transformer pad had the top 1" (one inch) of soil removed and also placed in the drums. Absorbent material was then added to the drums to ensure that they contained no liquid. They were then sealed and marked "PCB Contaminated Material" awaiting the manifest to ship them to Greensboro on a Cone truck for storage in the White Oak hazardous waste storage area.



Mr. William Pai Page 2 August 5, 1981

Since less than one (1) pound of material was released to the atmosphere (approximately 0.1-0.2 of a pound), it was not reported to the National Response Center. The incident was reported to the Raleigh, NC Office of the N.C. Department of Human Resources, Division of Health Services, Solid & Hazardous Management Branch, Environmental Health Branch, the first thing Monday morning.

This dry material will be stored at the Cone Mills/White Oak site until a suitable incinerator location is available to destroy it.

The air vent of the transformer has been suitably sealed, the transformer wrapped in plastic and labelled "PCB's" on the outside until the time it can be shipped to a Cone Mills approved transformer storage area for holding until such time as it is feasible to drain and flush the transformer. The drained and flushed material will be incinerated in an approved incinerator and the cleaned, drained transformer sent to Alabama for burial.

Sincerely,

T. A. Alspaugh/ Manager, Water & Air Resources

crn

Mr. Lee Clyburn, Plant Engineer

Mr. Graham Knight Mr. Arthur Toompas

Mr. Rick Doby, State of NC Engineer



JAMES B. HUNT, JR. GOVERNOR

SARAH T. MORROW, M.D., M.P.H.

DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

P. O. Box 2091

Raleigh 27602

Ronald H. Levine, M.D. Acting Director

July 29, 1981

Mr. Tom Alspaugh Cone Mills Corporation White Oak Plant 2420 Fairview Street Greensboro, NC 27405

Dear Mr. Alspaugh:

Receipt of your July 17, 1981 correspondence has corrected the deficiencies noted during a June 23, 1981 RCRA Inspection.

Thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

0: W. Strickland, Head

Solid & Hazardous Waste Management Branch

Environmental Health Section

OWS:nlc

CONE MILLS CORPORATION

Greensboro, N. C. 27405

July 27, 1981

Mr. W. O. Strickland, Head Solid & Hazardous Waste Management Branch Environmental Health Section Division of Health Services Department of Human Resources State of North Carolina P. O. Box 2091 Raleigh, North Carolina 27602



Re: Listing of Hazardous Wastes Activities

Dear Mr. Strickland:

After discussing the list of Cone Mills Corporation plants in Alamance and Rockingham Counties as they relate to hazardous waste activities with Mr. Joe Deakins of your regional staff, it was decided these plants actually fall under the small quantity generator classification (less than 1000 Kg/month). Mr. Deakins suggested that at this time, as long as the plants remain small quantity generators, it would reduce the burden on the State staff and our staff to not keep them on the generator permit listing as far as the paperwork burden is concerned. Mr. Deakins also said if at any time a situation developed concerning any of the plants, we could request a temporary generator or storage registration to handle any waste load above 1000 Kg that month or apply to come under the system with a permanent registration.

In reviewing the Cone Mills plants in North Carolina, we find they are all small quantity generators. We, however, have constructed a storage site at our White Oak Plant here in Greensboro. This site has already been inspected by Mr. Steve Phibbs, Winston-Salem Regional Office, and as far as we know we have complied with all the regulations for this site. We have also developed Hazardous Waste or Hazardous Waste Constituents Release - Contingency Plans for each plant and each plant has an emergency coordinator.

Mr. W. O. Strickland Page 2 July 27, 1981

The list of Cone Mills plants in North Carolina is as follows:

Chemical Chair House
Cliffside Plant
Custom Graphic Impressions
Edna Plant
Eno Plant
Florence Plant
Granite Plant
Haynes Plant
Minneola Plant
Olympic Products Co.
Pineville Plant
Prelude Company
Revolution Plant
Salisbury Plant
Tabardrey Plant

White Oak Plant

Greensboro, NC (Pleasant Garden) Cliffside, NC Greensboro, NC Reidsville, NC Hillsborough, NC Forest City, NC Haw River, NC Henrietta, NC Gibsonville, NC Greensboro, NC (Pleasant Garden) Pineville, NC High Point & Thomasville, NC Greensboro, NC Salisbury, NC Haw River, NC Greensboro, NC

We, therefore, request that all our plants except the White Oak Plant be removed from the registration listing since they will be small quantity generators or storers.

Sincerely,

T. A. Alspaugh

Manager, Water & Air Resources

cc: Mr. Joe Deakins

N.C. Dept. of Human Resources

Solid & Hazardous Waste Management Branch

2332 Buckingham Road Burlington, NC 27215

Mr. Arthur Toompas - Cone Mills

Mr. Shellman Green - Cone Mills

Mr. Rodney Sawyer - Cone Mills

Mr. Richard Sullivan - Cone Mills



JAMES B. HUNT, JR.

DEPARTMENT OF HUMAN RESOURCES

HUGH H. TILSON, M.D. DIRECTOR

SARAH T. MORROW, M.D., M.P.H. SECRETARY Division of Health Services

NORTH CENTRAL REGIONAL OFFICE 720 Colineum Drive, Plaza West Winston-Salem, N. C. 27106 Telephone (919) 761-2390

July 20, 1981



MEMORANDUM

TO:

O. W. Strickland, Head

Solid & Hazardous Waste Management Branch

FROM:

Steve Phibbs, District Sanitarian

SUBJECT:

I.S.S. Compliance Schedule

On July 17, 1981, I received a copy of the waste analysis and contengency plan for Gene Mills - White Oak Plant in Greensboro, North Carolina. This plan is adequate to meet the hazardous waste management requirements. Also, copies of the contingency plan have been sent to the local emergency response units in the City of Greensboro.

Again Cone Mills is maintaining a very good hazardous waste program.

Thank you.

SP/sl



JAMES B. HUNT, JR. GOVERNOR

DEPARTMENT OF HUMAN RESOURCES Division of Health Services

HUGH H. TILSON, M.D. DIRECTOR

SARAH T. MORROW, M.D., M.P.H.

P. O. Box 2091

Raleigh 27602

July 10, 1981

Mr. Tom Alspaugh Cone Mills Corporation White Oak Plant 2420 Fairview Street Greensboro, NC 27405

Dear Mr. Alspaugh:

On June 23, 1981, Mr. Steve Phibbs, Solid and Hazardous Waste Management Branch, conducted an interim status inspection of your facility and the following violations were noted.

- (1) General Waste Analysis Plan (265.13) It is required that the owner/operator provide a written waste analysis plan including frequency of analysis.
- (2) Copies of Contingency Plan (265.52) A facility must provide a copy of the contingency plan to the local authorities.

Please correct these violations in accordance with the schedule established by you and Mr. Steve Phibbs and recorded below.

- (1) General Waste Analysis Plan (265.13) 30 days
- (2) Copies of Contingency Plan (265.53) 10 days

If you have any questions, please contact my office at (919) 733-2178.

Sincerely,

O. W. Strickland, Head Solid & Hazardous Waste Management Environmental Health Section

OWS:nlc



JAMES B. HUNT. JR.

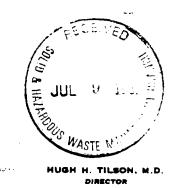
DEPARTMENT OF HUMAN RESOURCES

Division of Health Services

SARAH T. MORROW, M.D., M.P.H. SECRETARY

NORTH CENTRAL REGIONAL OFFICE 720 Colissum Drive, Plaza West Winston-Salem, N. C. 27/06 Telephone (919) 761-2390

July 8, 1981



MEMORANDUM

TO:

O. W. Strickland, Head

Solid and Hazardous Waste Management Branch

FROM:

Steve Phibbs

District Sanitarian

SUBJECT:

Notice of Violation

On June 23, 1981 an interim status standards inspection was conducted at the Cone Mills - White Oak Plant in Greensboro, North Carolina. The following violations were identified.

1-265.13(B) General Waste Analysis. It is required that the owner/operator provide a written waste analysis plan.

2-265.53 (b) Copies of contingency plan. Copies of the contingency plan have not been submitted to the local emergency response units.

The following compliance schedule to correct the above listed violations was agreed to by Cone Mills - White Oak Plant.

- 1. General Waste Analysis Cone Mills White Oak Plant will develop a waste analysis plan and use a gas chromatograph mass spectrophotometer to analyze hazardous waste. A written plan for frequency of analysis and actual analytical results will be developed and maintained. Thirty (30) days will be allowed for this procedure.
- Copies of Contingency Plan Within the next ten (10) working days, copies of the contingency plan will be presented to the local emergency response units.

Cone Mills - White Oak Plant is doing an outstanding job with their hazardous waste program.

SP/la

INSPECTION FORM FOR INTERIM STATUS STANT RUS FOR OWNER/SERATOR OF HAZARDOUS WASTE MANAGEMENT FACILITIES

Nam	e of Site EPA I.D. ONE MILE-White CAL NCDOOL	22/2	···	Coun	- ()
Loc	ONE MUIS-White CAR NCDOOC	Signa	ture of		ty Contact
Dat し/	e 3 _C)らi TRUCTIONS: Place a check to indicate Complian	$\sqrt{2}$	Thin	Inspect	ASL
	Applicable (NA). Cite specific v				(NC) or Not
	•	c	NC	NA	<u>Violation(s)</u>
1.	GENERAL	<u></u>			
2.	GENERAL FACILITY STANDARDS		~		265.13(8)
3.	PREPAREDNESS AND PREVENTION	<u></u>	*******		
4.	CONTINGENCY PLAN AND EMERGENCY PROCEDURES		<u>~</u>		265.53(B)
5.	MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	à			**************************************
6.	GROUND-WATER MONITORING			<u></u>	
7.	CLOSURE AND POST-CLOSURE	~			
8.	FINANCIAL REQUIREMENTS	~			
9.	USE AND MANAGEMENT OF CONTAINERS	<u> </u>			#****
0.	TANKS				
1.	SURFACE IMPOUNDMENTS			<u>/</u>	
2.	WASTE PILES		-	\checkmark	
3.	LAND TREATMENT			<u>'</u>	
4.	LANDFILLS			4	
5.	INCINERATORS			1/	
6.	THERMAL TREATMENT			1	
7.	CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT			1/	
8.	UNDERGROUND INJECTION			1	
	•		YES		<u>NO</u>
	Imminent hazard		()		(2)
Explain			A INSPE	CTION S	UMMARY

GENERATORS CHECKLIST

Nam	ie.	EPA I.D.	County
100	(YC		Date/
	atio [-	FAIRDIEN St. Tim Alaxianski	1.1.28/\$1
		Participants	C/SP/N
	+	me thelic	
INS	TRUC	TIONS: In the space provided, use the listed codes to C - Compliance, NC - Noncompliance, NA - Not A	
1.	EPA	identification number, if applicable (262.12)	11/. C. DOCO776919
2.	Was	te Volume (261.5)	
	a.	*Small Generator (<1000 kg/Mo)	
	b.	*Large Generator (> 1000 kg/Mo) [] (*Note: Special limits on 261.33(e) list)	
3.	was	efly describe the plant operations and the type of te generated. (Volume, form) 15 Gallons of Ste Solvents Senerated on A weekly basis	
4.	Whe <u>Se</u>	re is the waste currently being disposed? Waste	Treatment System
5.	Che	ck Manifest (262.20 - 262.23)	
	a.	identification (I.D. code, name, address, date)	<u> </u>
	ь.	waste information (shipping description, hazard class, quantity and unit)	<u>yes</u>
	c.	emergency information (immediate response information, special handling instructions, phone no.)	485 ·
	d.	certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA".	<u> </u>
6.	Che	ck Containers (262.30)	•
	a.	improper construction	
	b.	leaks or corrosion	
	C.	heat generation from incompatible wastes	

- (Onti	nueu	
7.	Lab	eling practices and marking (262.31 - 262.32)	
	a.	DOT shipping description	
	b.	Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.	
		Generator's Name and Address	
		Manifest Document Number	waste shipped in bul
8.	Pla	cards for transport (262.33)	-
9.	Che	ck accumulation time of wastes: (262.34) N/A	
		check records and dates	
	b.	check containers	
10.	Rec	ordkeeping practices:	
	a.	manifests (262.40)	19 85
	b.	test results (262.40)	<u></u>
•	c.	annual reports (262.41)	
	d.	exception reports (262.42)	
1.	Int	ernational shipments (262.50)	NA
2.	Per	mit information:	·
	a.	Check all applicable permits held by the generator	:
	<u>_</u>	NPDES Permit SPCC Plan State Permit (Spec	ify)
	يا_	Air PermitsLocal PermitRCRA Disposer	
	<u></u>	RCRA Storer RCRA Treater	
		Other (Specify)	
	b.	In Compliance Yes No Unknown with respect to	Regulation Name/#
3.	Pas	t regulatory actions: (Circle response)	
	Non	•	
	Yes	If yes, summarize: NPDES discharge	- guestienel 7-8
		LICARS AGC. COM DA	Na paid \$15,00 fine

	Date of Past Action	Performed by EPA or State	Describe: 1/1/C/
None	c		Describe: P.L.C.D Af DE T. Linchary Regardements
Yes Speci			
	· · · · · · · · · · · · · · · · · · ·		
Remedial act	ivity (past or	on-going): (Circ	le response)
None Yes Speci	_		

- Continued

NERAL SITE INSPECTION CHECKLIS

Name 1/6 +6	EPA I.D.	County				
Cone Wille - Clar	Dinat	(2) 1 find				
Location	Contact Person	Date				
2400 MAIRVIEW St.	N.C. ler HISDAUS	Date h (123/8) codes to indicate status.				
INSTRUCTIONS: In the space	provided, use the/listed	codes to indicate status.				
C - Compitan	ce, NC - Noncompliance, N	NA - NOT applicable				
1. Characterization of site activity:						
a. check off the appropriate activities below:						
STORER	TREATER	DISPOSER				
Pile	Filtration	Landfill				
Surface Impoundment	Incineration	Land Treatment				
Drums	Thermal Treatment	Surface Impoundment				
Tank, Above Ground	Volume Reduction	Incineration				
Tank, Below Ground	Recycling/Recovery	Other				
Other	Chem/Phys/Bio Treatment					
	Waste Oil					
	Reprocessing					
	Solvent Recovery	1 14 hly Archase				
	0ther	MONTHLY AREASE				
		Applear foo, coogal.				
b. specify details of	site activities as needed	1:				
Textile Manufac	turing - Denim	Production, Schunts used				
c. site description (a	MA CHINNELL) creage, etc.)					
10 ACRE Textile	MANUFACTURING	Plant				
Actions Taken or Plannned (This information is avail if filled out)	able on generator checklist				
2. Permit information:						
a. Check all applicab	le permits held be the si	te:				
NPDES Permit SPCC P	lanState Permit (Sp	pecify)				
Air PermitsLocal	Permit RCRA Disposer					
RCRA StorerRCRA T	reater					
Other (Specify)						
In Compliance (Circle) Yes No Unknown with respect to: Regulation Name/#						

8.	Adequate security: (265.14) (The facility may be exempt under (265.14(a)(1)(2))	
	a. 24 hour surveillance system (265.14(b)(1))	1205
	b. artificial or natural barrier around facility (265.14(b)(2)(i))	ines.
	c. means to control entry (265.14(b)(2)(ii))	<u> </u>
	d. danger sign(s) at entrance(s) (265.14(c))	hes
9.	Inspection requirements must include: (265.15)	
	a. malfunction (265.15(a))	yes_
	b. operator error (265.15(a))	1 ₂ e s
	c. discharges (265.15(a))	; es
	d. written inspection schedule (265.15(b)(1)(2))	,
	1. monitoring equipment	<u>1985</u>
	2. safety, emergency equipment	5°S
	3. security devices	Jaes .
	4. operating and structural equipment	Les
	e. inspection log (265.15(d))	.) <u>~~6</u> e5
0.	Personnel training records: (265.16) (eneck weed to b	c,
	a. job titles (265.16(d)(1)) 4	yes
	b. description of training (265.16(d)(2))	izes
	c. records of training (265.16(d)(3))	1 ₂ e5
1.	Requirements for ignitable, reactive or incompatible wastes: (265.17)	<i>)</i>
	a. handling (265.17(a))	yes
	b. no smoking signs (265.17(a))	2185
	c. separation and confinement (265.17(a))	Le5
	d. check waste containers (265.17(a))	1)es-6.K.

- Continued

- (Continued	_		\smile	
3.	Past regulate	ory actions: (Circle)		
	None				
	Yes If	yes, summarize	: Write GAR R	pat fined 215,0	ec 7-8
4.			r on-going): (Circle	professione to	discharige
		Date of Past Action	Performed by EPA/ <u>State</u>	Describe: 1920. Wispoitha	D dischai
Nor	ne			inspection	NS
Yes	: Specify:				
	None Yes Specif	Fy:			
	eral Facility	Standards		VEC	NO.
	part B:	ification numb	on /265 11\	YES	<u>NO</u>
6.		ification numb		()	()
	-	shipments (265.		()	(-)
		/operator (265		()	(4
7.		e Analysis Plan	must include: (265.		<u>NO</u>
	a. test meth	iods		()	(4
	b. sampling	method		()	(1)
	c review or	reneat of ana	lveie	()	()

Preparedness and Prevention Subpart C:

12.	Mai	ntenance and operation of facility: (265.31)		
	a.	evidence of fire, explosion or contamination of the environment	None	
13.	Req	uired equipment: (265.32)		
	a.	alarm system (265.32(a))	<u>1965</u>	
	b.	telephone or 2-way radio (265.32(b))	<u> </u>	
	c.	portable fire extinguishers, fire control, spill control equipment and decontamination equipment (265.32(c))	<u> </u>	
	d.	water of adequate volume for hoses, sprinklers or water spray sytem (265.32(d))	45	
14.	Tes	ting and maintenance of equipment (265.33)	,	
	a.	testing and maintenance procedures	<u> </u>	
	b.	condition of equipment	0.K.	
15.	. Access to communications or alarm systems (265.34) (unless exempt under 265.32)			
16.	Req	uired aisle space (265.35)	<u> 1785</u>	
17.		angements with local authorities (265.37) te 265.37(b))	J	
	a.	Attempted arrangements (265.37(a))	<u> </u>	
	b.	Agreement with state emergency response teams (265.37(Q)(3)	<u>425</u>	
Cont Subp	inge art	ncy Plan and Emergency Procedures D:		
18.	Con	tent of contingency plan (265.52)	405-0.1C	
	1.	Local agreements (265.52(c))	<u> </u>	
	2.	Emergency coordinator(s) (265.52(d)) (Phone No./qualifications)	<u> </u>	
	3.	Emergency equipment list (265.52(e))	yes_	
	4.	Evacuation Plan (265.52(f))	<u> </u>	

19.	Copies of contingency plan (265.53)	Ν¢
20.	Emergency coordinator (265.55)	
	a. identify emergency coordinator	<u> </u>
	 ensure qualifications of coordinator 	
21.	Emergency procedures (265.56)	, × S
Mani Subp	fest System, Recordkeeping, and Reporting art E:	
22.	Use of manifest system: (265.71)	<i>.</i>
	a. procedures for processing each manifest	<u> </u>
	b. records of past shipments	455
23.	Manifest discrepancies (methods of detection) (265.72)	Life S
24.	Operating record: (265.73)	
-	a. presence	U.K.
	b. maintenance	C. 12.
25.	Availability, retention and dispostion of records (265.74)	<u>yes</u>
26.	Annual report (265.75)	
27.	Unmanifested waste report: (265.76 N/A	
	a. procedures for filling out report	
	b. compliance file for reports	
28.	Additional reports: (265.77)	
	a. releases, fires and explosions (265.77(a))	<u>yes</u>
	b. groundwater contamination (265.77(b))	
	c. facility closure (265.77(c))	

- Continued

Grou Subp		ter Monitoring F:	
29.	App	olicability: (265.90)	•
	a.	check applicability (265.90(a))	-
	b.	operation and maintenance of a system (265.90(b))	
	c.	waiver of requirement (265.90(c))	
30.	Gro	oundwater monitoring system (265.91)	
	a.	presence (265.91(a))	
	b.	number and placement of wells (265.91(a)(1)(2))	
	c.	maintenance of wells (265.91(c))	
	d.	well integrity (265.91(c))	
31.	Sam	pling and analysis: (265.92)	
	a.	sampling and analysis plan (265.92(a))	
	b.	records of sampling and analysis (265.94(a)(1))	
32.	Pre	paration, evaluation and response: (265.93)	
	a.	outline of water quality assessment program (265.93(a))	
	b.	adequacy of outline (265.93(a)-(f))	
33.	Rec	ordkeeping and reporting: (265.94)	
	a.	groundwater analysis records (265.94(a)(1))	
	b.	reports of groundwater monitoring information to Regional Administrator (265.94(a)(2))	
	c.	<pre>annual groundwater quality reports (265.94(a)(2)(ii)(iii))</pre>	
Clos Subp		and Post-Closure G:	
34.	Clo	sure and post-closure: (265.110 - 265.112)	
	a.	closure plan	<u> </u>
	b.	adequacy of plan	<u> </u>

35.	Time for closure: (265.113)	
	a. 90 day closure requirements (265.113(a))	
	b. six month closure requirements (265.113(b))	
36.	Disposal or decontamination of equipment (265.114)	E. F.
37.	Certification of closure (265.115)	
38.	Post closure care and use of property: (265.117)	
	a. post closure plan	
	b. period of post closure plan	
	c. plan and amendments approved (265.112)	
39.	Notice to local land authority (265.119)	
	 a. survey plat including records of all waste types and quantities of waste 	
	b. submitted to proper authorities	***************************************
40.	Notice in deed to property: (265.120)	
	 a. proper notification to potential purchasers 	
	ncial Requirements art H:	
41.	Liability for each facility (sudden, nonsudden act) Specify amount \$ 1,000,000	<u>yes</u>
42.	Effective date (facility specific)	was in effect price
		Nov. 19, 1980

- Continued

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBOILD, N. C.

MEMO TO: Engineering Dept.

ATTN: Mr. Arthur Toompas

in: Arthur loompas

LAB NO.: 0507-9300-1020

June 2, 1981

RE: Priority Pollutant

Analysis of DWD Effluent Water.

SAMPLE TAKEN: 5/06/81

SAMPLE EXTRACTED FOR B/N, ACIDS, PESTICIDES: 5/08/81

ANALYSES COMPLETED: 5/21/81

SAMPLE TAKEN: 5/29/81

PURGE AND TRAP WORK COMPLETED: 5/29/81

DATA: Chemical Analysis

Quantitative results concerning the priority pollutants are given in the next 7 pages. In addition, other compounds were found in the various fractions and they are given below.

Base/Neutral Fraction: "two" chloroxylene isomers, dichloroxylene,

2-chloro-4,6-bis(ethylamino)-S-triazine (also called Simazine; a herbicide used for control

of broadleaf and grassy weeds).

Acid Fraction: chloroethylbenzene, dichloroxylene, and trichloroxylene.

TESTING SERVICES

John a. Dum

John A. Dunn, Analyst

c.m. Playerfr.

C. M. Player, Jr., Section Head

JAD: CMPjr:smt

cc: Mr. Tom Alspaugh

(Note 1: Analysis for Base/Neutrals on Process Water will follow

this request. A new sample will be collected for the analysis.)

(Note 2: There are 13 priority pollutant metals; analysis will

follow at a later date.)

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(1)

BASE/NEUTRAL FRACTION

Compound	Amount Detected (µg/liter)	Limit of I	Detection ug/liter
	None Detected (ND)		
1,3-dichlorobenzene		20	10
1,4-dichlorobenzene	ND	20	10
hexachloroethane	ND	20	10
Bis(2-chloroethy1)ether	ND	20	10
1,2-dichlorobenzene	ND	20	10
N-nitroso-di-n-propyl amine	ND	20	10
nitrobenzene	ND	20	10
hexachlorobutadiene	ND	20	10
1,2,4-trichlorobenzene	ND	20	10
isophorone	ND	20	10
naphthalene	ND	20	10
Bis(2-chloroethoxy)methane	ND	20	10
hexachlorocyclopentadiene	ND	20	10
2-chloronaphthalene	ND	20	10
acenaphthylene	ND	20	10
acenaphthene	ND	20	10
dimethyl phthalate	ND	20	10
2,6-dinitrotoluene	ND	20	10
fluorene	ND	20	10
4-chlorophenyl phenyl ether	ND	20	10
2,4-dinitrotoluene	ND	20	10
1,2-diphenyl hydrazine	ND	20	10
diethyl phthalate	3	20	10
N-nitrosodiphenyl amine	ND	20	10
hexachlorobenzene	ND	20	10
*Standard AATCC Rating System: 5-Excellent, 4-Goo	d, 3-Fair, 2-Poor, 1-Very Poor		JIC

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(2)

BASE/MEUTRAL FRACTION, contd.

Compound	Amount Detected (µg/liter)	Limit of I	Detection ug/liter
4-bromophenyl phenyl ether	ND	20	10
phenanthrene	ND	20	10
di-n-butyl phthalate	6	20	10
fluoranthene	ND	20	10
pyrene	ND	20	10
benzidine	ND	20	10
butyl benzyl phthalate	ND	20	10
Bis(2-ethylhexyl)phthalate	24	20	10
chrysene	ND	20	10
benzo (a) anthracene	ND	20	10
3,3-dichlorobenzidine	ND	20	10
di-n-octyl phthalate	ND	20	10
benzo (b) fluoranthene	ND	20	10
benzo (k) fluoranthene	ND	20	10
benzo (a) pyrene	ND	20	10
indeno(1,2,3-c,d) pyrene	ND	50	25
dibenzo(a,h) anthracene	ND	50	25
benzo(g,h,i) perylene	ИD	50	25
N-nitrosodimethyl amine	ND		
Bis-(chloromethyl) ether	ND		
2,3,7,8-tetrachlorodibenzo-p-dioxi	n ND		

(3)

ACID FRACTION 1,2

Compound	Amount Detected (µg/liter)	Limit of ng injected	Detection ug/liter
2-chlorophenol	None Detected (ND)	50	25
2-nitrophenol	ND	50	25
phenol	ND	50	25
2,4-dimethylphenol	ND	50	25
2,4-dichlorophenol	ND	50	25
2,4,6-trichlorophenol	ND	50	25
4-chloro-3-methylphenol	ИD	50	25
2,4-dinitrophenol	ND	500	250
2-methyl-4,6-dinitrophenol	ND	500	250
pentachlorophenol	ND	50	25
4-nitrophenol	ND	50	25
total phenols (by 4 AAP method)	6.4		

The 4-aminoantipyrine method used to analysis of total phenols has a lower detection limit than the extraction GC/MS method; the 4-aminoantipyrine method is for total phenols, whereas the GC/MS method is for individual phenol compounds.

²There were no chlorophenol compounds detected in the acid fraction.

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

(4)

PESTICIDE FRACTION

Compound	Amount Detected (µg/liter)	Limit of Det	ection µg/liter
а-ВНС	None Detected (ND)	40	10
д-ВНС	ND	40	10
ъ-внс	ND	40	10
heptachlor	ND	40	10
d-BIIC	ND	40	10
aldrin	ND	40	10
heptachlor epoxide	ND	40	10
endosulfan I	ND	40	10
dieldrin	ND	40	10
4,4'-DDE	ND	40	10
endrin	ND	40	10
endosulfan II	ND	40	10
4,4'-DDD	ND	40	10
4,4°-DDT	ND	40	10
endosulfan sulfate	ND	- 40	10
chlorodane	ND		
toxaphene	ND		
PCB-1242	ND		
PCB-1254	ND		

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

PESTICIDE FRACTION, contd.

(5)

Compound	Amount Detected (µg/liter)	Limit of Det	ection ug/liter
PCB-1221	ND		
PCB-1232	ND		
PCB-1248	ND		
PCB-1260	ND		
PCB-1016	ND		
endrin aldehyde	ND		
2,3,7,8-tetrachlorodibenzo-p-dioxane	(TCDD) ND		

recumear services report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

VOLATILE ORGANICS

(6)

Compound	Amount Detected (µg/liter)	Limit of Detection
chloromethane**	None Detected (ND)	10
bromomethane**	ND	10
vinyl chloride**	ND	10
chloroethane**	ND	10
methylene chloride	ND	10
trichlorofluoromethane	ND	10
1,1-dichloroethene	ND	10
1,1-dichloroethane	ND	10
trans-1,2-dichloroethene	ND	10
chloroform	ND	10
1,2-dichloroethane	ND	10
1,1,1-trichloroethane	ND	10
carbon tetrachloride	ND	10
bromodichloromethane	ND	10
1,2-dichloropropane	ND	10
trans-1,3-dichloropropene	ND	10
trichloroethene	ND	10
dibromochloromethane	ND	10
1,1,2-trichloroethane	ND	10
cis-1,3-dichloropropene	ND	10
benzene	ND	10

Technical Services Report

CONE MILLS CORPORATION

TECHNICAL CENTER

GREENSBORO, N. C.

VOLATILE ORGANICS, contd.

(7)

Compound	Amount Detected (µg/liter)	Limit of Detection ug/liter
2-chloroethylvinyl ether	ND	10
bromoform	ND	10
1,1,2,2-tetrachloroethane	ND	10
tetrachloroethene	ND	10
toluene	ND	10
chlorobenzene	ND	10
ethylbenzene	ND	10
acrolein	ND	100
acrylonitrile	ND	100

^{**}By EPA criteria, these four compounds should be absorbed on Silica Gel 15 when using the purge and trap method. At the present time, we do not have this particular sorbent; it is, however, on order and these compounds will be checked on a new sample.

DEM FORM MR-1.4 REVISED 3-78

F.

QUPSTREAM SAMPLES DOWNSTREAM SAMPLES

DOWNSTREAM I. D. NUMBER

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POST OFFICE BOX 27687, FALEIGH, NORTH CAROLINA 27611 11 U.S. 99 Billing OF THE STREAM SAMPLING LOCATIONS TO COLORS T

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STREAM NAME AND SAMPLING LOCATION

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A MONITORING REPORT FOR COPIES TO RALLIG franchorn RETAIN YELLOW COPY FOR FILLS COUNTY TAME STREET TO THE STREET 25 DOWNSTREAM SAMPLING LOCATION FOR YOUR FACILITY, SHOULD SUCH A CAJGING STATION AT EITHER THE UPSTREAM OR DOWNSTREAM SAMPLING LOCATION FOR YOUR FACILITY, SHOULD SUCH A CAJGING STATION BE LOCATED AT OR NEAR ONE OF THE STREAM SAMPLING LOCATIONS.

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MAIL MONTHLY MONITORING REPORTS TO:
DIVISION OF ENVIRONMENTAL MANAGEMENT
NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
POST OFFICE BOX 27687
RALEIGH, NORTH CAROLINA 27611

MAIL WHITE & PING

RETAIN YELLOW

U. S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE DATA BASE UPDATED 85/03/14 T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 106 RUN DATE: 85/03/14 RUN TIME: 20:12:07

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EPA ID NO.: NCD000776914 SHEET 01

(ACTION : *_ * - FOR DATA ENTRY USE ONLY) SF ID: *__* * *__* SITE NAME: CONE MILLS CORP/WHT OAK PLT SOURCE: H SOURCE COUNTS: *_ * *__* STREET: 2420 FAIRVIEW ST CONG. DIST: 06 NOTIS: 'NATL PRIORITY: N CITY: GREENSBORO ST: NC ZIP: 27405-____ STS: `HRS: *___._* CNTY NAME: GUILFORD CNTY CODE: 081 HWDMS: HRS DATE (YY/MM): *__/__* LATITUDE: 35/05/50.0 LONGITUDE: 079/46/48.0 COMPOSITE: 0 RESPONSE TERMINATION (CHECK ONE IF APPLICABLE): PENDING X NO FURTHER ACTION *__* OTHER: ENF. DISP. (CHECK ANY THAT APPLY): NO VIABLE RESP. PARTY *_* VOL. RESP. *_* ENF. RESP. *_* COST RECOV. *_* RSPO NAME: *____ * RSPO PHONE: *____ * FED. FAC. (Y/N): N NON-SITE: *__* USGS HYDRO. UNIT: 03030002 REG. FLD1: *_____ * REG. FLD2: 7 SMSA: 3120 SITE DESCRIPTION: *_______*

EVENTS

	(ACTION - FOR DATA ENTRY USE ONLY)	EVENT TYPE	DATE (YY/MM) STARTED	DATE (YY/NM) COMPLETED	CONDUCTED BY EPA STATE RESP/PART		COUNTS
RESPONSE	** (X)	SITE DISCOVERY (SD)		80/08			•
EVENTS	** (X)	PRELIMINARY ASSESSMENT (PA)	85/03	85/03	** X		
	**	SITE INVESTIGATION (SI)	*/*	*/*	*_* *_*		
:	**	REMEDIAL ACTION (RD)	*/*	*/*	*_* *_* *_*	**	**
•	**	REMOVAL ACTION (RV)	*/*	*/*	*_* *_* *_*	**	**
EMFORCE. EVENTS	**	ENFORCEMENT INVESTIGATION (EI) */*	*/*	: <u>*</u> * *_*	**	
EAEMIS	**	ADMINISTRATIVE ORDER (AO)	*/*	*/*	*_* *_*	**	
	**	JUDICIAL ACTION (JA)	*/*	*/*	*_* *_*	*_*	

U. S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE DATA BASE UPDATED 85/03/14 T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 107 RUN DATE: 85/03/14 RUN TIME: 20:12:07

EPA ID NO.: NCD000776914 SHEET 02

,	SITE NAME: CONE MILLS CORP/WHT OAK PLT
)	ALIAS AND ALIAS LOCATION DATA
	ALIAS (ACTION ** - FOR DATA ENTRY USE ONLY)
)	SEQ. NO.: ** ALIAS NAME: ** SOURCE: **
)	*ALIAS LOCATION* (ACTION *_* - FOR DATA ENTRY USE ONLY)
	CONTIGUOUS PORTION OF SITE: **
)	STREET: ** CONG. DIST.: **
,	CITY: ** ST: ** ZIP: **
)	CNTY NAME: ** CNTY CODE: **
,	LAT: */, * LONG.: */, * SMSA: ** USGS HYDRO. UNIT: *
)	
	ALIAS (ACTION ** - FOR DATA ENTRY USE ONLY)
)	SEQ. NO.: *_ * ALIAS NAME: * * SOURCE: *_ *
١	*ALIAS LOCATION* (ACTION ** - FOR DATA ENTRY USE ONLY)
,	CONTIGUOUS PORTION OF SITE: **
)	STREET: ** CONG. DIST.: **
,	CITY: ** ST: ** ZIP: **
)	CNTY NAME: ** CNTY CODE: **
′ _	LAT: *//* LONG.: */_/* SMSA: ** USGS HYDRO. UNIT: *

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U. S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE DATA BASE UPDATED 85/03/14 T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 108 RUN DATE: 85/03/14 RUN TIME: 20:12:07

EPA ID NO.: NCD000776914 SHEET 03

SITE NAME: CONE MILLS CORP/WHT OAK PLT

SITE COMMENTS

(ACTION - FOR DATA ENTRY USE ONLY)	COMMENT NUMBER	COMMENT
**	001	PART A- ON FILE
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U. S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE DATA BASE UPDATED 85/03/14 T.1 - ERRIS TURNAROUND DOCUMENT

PAGE: 109 RUN DATE: 85/03/14 RUN TIME: 20:12:07

EPA ID NO.: NCD000776914 SHEET 04

SITE NAME: CONE MILLS CORP/WHT OAK PLT

REGIONAL ENTRIES

		DESCRIPTION
(ACTION - FOR DATA ENTRY USE ONLY)	ENTRY CODE	DATE1 DATE2 DATE3 FREE FIELD (YY/MM/DD) (YY/MM/DD) (YY/MM/DD)
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* <u>*</u> *	**	** ***
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**	**	* ** * ** * ** * **

ŞEPA		HAZARDOUS WAS			REC	GION SITE		7769/4
File this form in the regional Haz System; Hazardous Waste Enforce	ardous Waste Lo	g File and submit	a copy to: U.			otection A	rency; Site	Tracking
A. SITE NAME		I. SITE IDENTI	IFICATION B. STREET					
CONE, 11/1/10	RP.		34	30 F	AIVUIE		<u>t, </u>	
C. CITY GREENS DOM	20		D. STATE	N.C	·	E. ZIP CO	405	
		II. TENTATIVE						
Indicate the recommended action(s) and agency(ies	s) that should be i	involved by m	arking 'X'	in the appr	ropriate bo: ACTION		
RE(COMMENDATION			MARK'X'	EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED NO HAZ	ARD							
B. INVESTIGATIVE ACTION(S) NEE	DED (If yes, comp	olete Section III.)				X		
C. REMEDIAL ACTION NEEDED (II	yes, complete Seci	tion IV•)						
ENFORCEMENT ACTION NEEDE D. be primarily managed by the EPA of is anticipated.)	D (if yes, specify in or the State and wh	in Part E whether the	he case will ent action					
E. RATIONALE FOR DISPOSITION	Medium	Privite			<u> </u>	<u> </u>	<u> </u>	
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F. INDICATE THE ESTIMATED DAT	- C 0 0 0 0 1	\mathcal{L}	Clel.		···	·· In NECE	TARY INDI	CATE THE
(mo, day, & yr.)	E OF FINAL DISP	POSITION	G. IF A CASE ESTIMATE (mo., day, &	D DATE ON			SSARY, INDI ILL BE DEV	
H. PREPARER INFORMATION			<u></u>					
1. NAME Suse	Blon	d	2. TELEPHO	/ - JJ	_ /	3. DA	TE/(mo., day	y, & yr.) 5
		NVESTIGATIVE A						
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Groundwater (Contames	ration ?	xlot.	Blo B	hown	.or pag	picter	
gruate well	2 m M	curity.				-		
B. PROPOSED INVESTIGATIVE ACT	IVITY (Detailed In	nformation)						
1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo,day, & yr)	3. TO BE PERFORMED BY (EPA, Con- tractor, State, etc.)	4. ESTIMATED MANHOURS			5. REMARK	: :s	
a. TYPE OF SITE INSPECTION				+				
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(3)								
b. TYPE OF MONITORING (1)							, , , , , , , , , , , , , , , , , , ,	
(2)								
C. TYPE OF SAMPLING	+			-				
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C. ESTIMATE		OST BY ACTION AGENCY			
1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES	1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES
a. EPA			b. STATE		
c. PRIVATE PARTIES			d. OTHER (specify)		,

SENDER: Complete items 1 and 2 when additional a and 4. Put your address in the "RETURN TO" Space on the reversard from being returned to you. The return receipt feed delivered to and the date of delivery. For additional fees to postmaster for fees and check box(es) for additional services 1. Show to whom delivered, date, and addressee's address of (Extra charge)	will provide you the name of the person the following services are available. Consult (s) requested.
3. Article Addressed to: Ms. Gayle Younger Legal Department Cone Mills Corp., White Oak Plant 2420 Fairview Street	4. Article Number P 700 132 619 Type of Service: Registered Insured Certified COD Express Mail
Greensboro, N.C. 27405 5 Signature - Addressee	Always obtain signature of addresses or agent and <u>DATE DELIVERED</u> . 8. Addressee's Address (ONLY if ! requested and fee paid)
6) Signature - Agent 1) La Will Gaze Wills Carp. 7) Date of Delivery 8 - 11-88	
P8 Form 3811, Mar. 1987 * U.S.G.P.O. 1967-178-268	DOMESTIC RETURN RECEIPT

CONE MILLS CORPORATION

Greensboro, N. C. 27405

August 17, 1988

Mr. Robert P. Morris
Environmental Engineer
Site Investigation and Support Branch
U.S. EPA-Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Re: Cone Mills Corporation

White Oak Plant

Greensboro, North Carolina

Dear Mr. Morris:

This is in reference to your letter dated August 5, 1988 and received August 11, 1988 requesting access to the White Oak Plant site to conduct an investigation.

In accordance with your request, we are enclosing a signed copy of your letter authorizing the access requested. However, we are surprised to learn that this plant site remains on your CERCLA working list and more surprised that it survived a preliminary assessment. Contrary to the preliminary assessment, to our knowledge, there has never been any land application or burial of any waste materials on this property. The only regulated environmental activities at this plant are the discharge of treated wastewater pursuant to an NPDES permit and air emissions pursuant to a permit issued by the State of North Carolina. We are not aware of any basis, reasonable or otherwise, to believe there may be a release or threat of a release of a hazardous substance, pollutant or contaminant that would distinguish White Oak from any other industrial facilities having permitted discharges and emissions.

You requested permission for access beginning August 22, 1988. Due to vacations scheduled by our environmental engineering staff, we would like for your work on site to be scheduled during the week beginning September 5, 1988 and this is set forth as an amendment to the second paragraph of your letter. The production facility will not be operating during this week, but the dye waste disposal plant will be operating. We would like to split samples and will provide our own containers for this purpose.



We will appreciate receiving a call prior to the actual visit to the site so the necessary people can be available to discuss any scheduling changes that may be necessary.

If you have any questions or need additional information, please give me a call.

Very truly yours,

CONE MILLS CORPORATION

Gayle E. Younger

Senior Attorney

GEY:ms

CC: TOM Alspaigh

AUG 1 i 1988



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

AUG 5 1988

345 COURTLAND STREET ATLANTA, GEORGIA 30365

4WD-SISB

Round by Eph

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Ms. Gayle Younger
Legal Department
Cone Mills Corporation, White Oak Plant
2420 Fairview Street
Greensboro, North Carolina 27405

RE: Cone Mills Corporation, White Oak Plant 2420 Fairview Street Greensboro, North Carolina 27405

Dear Ms. Younger:

The United States Environmental Protection Agency (EPA), pursuant to the authority and requirements of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act (SARA), Public Law 99-499, is planning to conduct an investigation of the above referenced site. The Cone Mills Corporation White, Oak Plant is located at 2420 Fairview Street in Greensboro, Guilford County, North Carolina. EPA has reason to believe that there may be a release or threat of a release of hazardous substances from the site into the surrounding environment. The purpose of the investigation is to determine the nature and extent of contamination at the site and to determine what, if any, further response action would be appropriate.

EPA is requesting permission for access to your property beginning on or about August 22, 1988 and continuing through completion of the investigation on or about August 25, 1988. Activities to be conducted during the investigation include:

- 1. Inspect, sketch, and photograph the premises;
- 2. Collect surface and subsurface soil samples;
- 3. Collect groundwater and subsurface water samples;

* Cone Mills requests the work on site to be scheduled during the week of September 5, 1988.

- Collect sediment samples;
- 5. Conduct air monitoring;
- 6. Transportation of equipment onto and about the site as necessary to accomplish the activities above, including trucks and sampling equipment.

The above sampling activity will be conducted by personnel from EPA Region IV's Field Investigation Team (FIT). Doug Chatham of FIT will contact you prior to the actual site visit to make final arrangements and note any changes.

Split samples will be made available if requested. However, you will be required to furnish your own containers as well as your own laboratory analyses.

Pursuant to Section 104 of CERCLA, as amended by SARA, Congress has given EPA express authority to conduct this investigation. Further, CERCLA authorizes designated EPA representatives to enter and obtain samples from any facility where there exists a reasonable basis to believe there may be a release or threat of release of a hazardous substance or pollutant or contaminant (42 U.S.C. 9604(e)). Should you deny this request for access to your property, an administrative order directing compliance with the request may be issued, civil action to compel compliance may be initiated, or access may be obtained by any other lawful means. Under certain circumstances, a court may impose a civil penalty in an amount not to exceed \$25,000 per day for failure to grant access or comply with any administrative order directing that access be granted.

If you will voluntarily give permission for EPA to conduct the above described investigation of the Cone Mill Corporation, White Oak Plant property, please sign and return the original of this letter to:

Robert Morris
Environmental Engineer
Site Investigation and Support Branch
U.S. EPA-Region IV
345 Courtland Street, N.E.
Atlanta, GA 30365

Your signature will represent your agreement to grant EPA, its contractor(s), subcontractor(s) and employees, access to your property during the periods stated and for the purpose of conducting some or all of the activities described above, and any other activity deemed necessary by EPA to properly perform the investigation. Failure to respond to this letter within seven (7) calendar days of your receipt of this letter will be deemed a denial of the request for access to your property.

A copy of this letter is enclosed for your records. If you have any questions, please contact Robert Morris at (404) 347-5065 or Mary Curnane, Assistant Regional Counsel at (404) 347-2641.

Your cooperation in this matter is appreciated.

Sincerely,

Patrick M. Tobin, Director Waste Management Division

Signature:

Data.

Enclosure

cc: Lee Crosby, NC DHR

Doug Chatham, NUS Corporation

Mary Curnane, ORC



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

ENVIRONMENTAL SERVICES DIVISION ATHENS, GEORGIA 30613

MEMORANDUM

DATE: August 17, 1988

SUBJECT: Site Screening Investigation Study Plans

FROM: Pat Stamp, Laboratory Quality Control Specialist at stamp

Laboratory Evaluation & OA Section

TO: Narindar Kumar

Site Assessment Section

Site Investigation & Support Branch

Waste Management Division

Wade Knight, Chief THRU:

Laboratory Evaluation & QA Section

We have reviewed three subject documents and have the following comments:

- A. Agrico Chemical #2, Greensboro, NC
 - Page 2, Section 1.2 -- The Scope of Work should address site-specific activities. The last bulleted item states surface soil, subsurface soil, surface water and nearest potable well will be sampled; however, two sediment locations are also included in Section 3.0, Table 3-1 and Figure 3-1.
 - 2. Page 8, Figure 3-1 -- The location for composite soil sample AG-SS-02 appears to be more in the area of a background sample rather than in the area of the impoundments.
- Cone Mills Corp., White Oak Plant, Greensboro, NC

No comments.

C. Carolawn Company, Inc., Kernersville, NC

Page 2. Section 1.2 -- The Scope of Work should address site-specific activities. The last bulleted item states surface soil, subsurface soil and nearest potable well will be sampled; however, two sediment and one monitoring well locations are also included in Sections 2.0, 2.1, 2.2, Table 2-1 and Figure 2-1.

Sent 879/88
P 700 132 619
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

	Sent to Gasle Your	ges.
	Street and No.	,
	P.O., State and ZIP Code	
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	Special Delivery Fee	
	Restricted Delivery Fee	
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3800,	Postmark or Date	
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Your cooperation in this matter is appreciated.

Sincerely,

/s/ Patrick M. Tobin.

Patrick M. Tobin, Director Waste Management Division

Signature:	
Date:	

Enclosure

cc: Lee Crosby, NC DHR
Doug Chatham, NUS Corporation
Mary Curnane, ORC

4WD-SAS 4WD-SA MOY 8/3 MOY 15 MOY 1

4WD-SISB 4WD

Tobin

rm:zc:08/03/88:5065

AUG 5 1988

4WD-SISB

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Gayle Younger Legal Department Cone Mills Corporation, White Oak Plant 2420 Fairview Street Greensboro, North Carolina 27405

RE: Cone Mills Corporation, White Oak Plant 2420 Fairview Street Greensboro, North Carolina 27405

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- 3. Collect groundwater and subsurface water samples:

- 4. Collect sediment samples;
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET ATLANTA, GEORGIA 30365

DATE: 8/11/88

SUBJECT: cone Mills corp., White Oak PH. NC

FROM: Robert Morris Robert Mover

10: File

On 4/1/48, I received a telephone call from
Harold Bynum an atterney for Conc Mills Corp.

Mr. Bynum telephoned because he had received
the access letter from EPA requesting site access
by FIT for the White Oak PH. for 8/22-25/84.

He was concerned the that EPA wanted to do
He was concerned the that EPA wanted to do
He was site because of recent publicity
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ce: Mary Curnane, ORC